ADDENDUM NO. 1

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Renovate Interior & Exterior Readiness Center Building
Mexico Readiness Center
Mexico, Missouri
PROJECT NO.: T2318-01

Bid Opening Date: 1:30 PM, Tuesday, August 27, 2024 (Not Changed)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. Section 07 5323 - Ethylene-Propylene-Diene-Monomer (EPDM) Roofing
   a. REMOVE entire section and REPLACE with attached version.

2. Section 08 3250 – Bullet-Resistant Security Aluminum Windows, Doors and Frames
   a. ADD Paragraph 2.1-B.3 as follows:
      3. USBP U.S. Bullet Proofing, Upper Marlboro, Maryland, (301) 218-7920, www.usbulletproofing.com.

3. Section 08 3313 – Coiling Counter Doors
   a. ADD Paragraph 2.3-A.1.f as follows:
      f. Raynor Garage Doors, DuraShutter.

4. Section 09 6723 – Resinous Epoxy Flooring and Resinous Wall System
   a. REMOVE entire section and REPLACE with attached version.

5. Section 10 2113.19 – Plastic Toilet Compartments
   a. ADD Paragraph 2.3-A.5 as follows:
      5. Hadrian Inc. Solid Plastic Toilet Partitions

6. Section 10 5300 – Prefabricated Cantilever Canopy
   a. ADD Paragraph 2.1-B.4 as follows:
      4. Archetype Canopies, Tulsa, Oklahoma, 1-918-584-8449

DRAWINGS CHANGES:

1. Sheet C-105 SITE PLAN
   a. REVISE LEGEND OF LABELS Note A to CONSTRUCT HEAVY DUTY CONCRETE **PAVEMENT** AS SHOWN. REFER TO PAVEMENT CROSS SECTION ON C-500.

2. Sheet C-500 SITE CONSTRUCTION DETAILS
   a. REVISE TYPICAL SIDEWALK NOTE 1 to SIDEWALK SHALL BE 4” THICK CLASS A CONCRETE ON 4” AGGREGATE BASE.

   b. ADD Drawing CROSS SECTION showing “MIN 4” AGGREGATE BASE”

3. Sheet A203 MRC BUILDING ROOF PLAN:
   a. KEYNOTES – ROOF PLAN:

i. Note 01: REMOVE “ON VAPOR BARRIER” from note. Vapor Barrier is not required with the roof system.

b. Drawing 02 CANOPY DETAIL SECTION:
   i. REMOVE and REPLACE the following: EPDM MEMBRANE ROOFING ON ½” GYPSUM SHEATHING COVER BOARD ON TAPERED POLLYISO INSULATION ON VAPR BARRIER to EPDM MEMBRANE ROOFING ON ½” COVER BOARD ON TAPERED POLYISO INSULATION.

c. Drawing 04 TYP. ROOF PENETRATION DETAIL:
   i. REMOVE “VAPOR BARRIER” from notes. Vapor Barrier is not required with the roof system.

d. Drawing 05 TYP. ROOF CURB DETAIL:
   i. REMOVE “VAPOR BARRIER” from notes. Vapor Barrier is not required with the roof system.
   ii. RIGID INSULATION note: REVISE leader so it points to rigid insulation.

4. Sheet A601 WALL SECTIONS
   a. Drawing 01 TYP. CLERESTORY WALL SECTION
      i. REMOVE “ON VAPOR BARRIER” from notes. Vapor Barrier is not required with the roof system.

   b. Drawing 02 TYP. CLERESTORY SILL DETAIL
      i. REMOVE “ON VAPOR BARRIER” from notes. Vapor Barrier is not required with the roof system.

5. Sheet A703 ROOM FINISH SCHEDULE & INTERIOR FINISH KEY
   a. INTERIOR FINISH KEY: ADD “INTERIOR FINISH KEY” heading

   b. INTERIOR FINISH KEY: ADD headings for “CODE; TYPE; MANUFACTURER; PATTERN; COLORWAY; SIZE; INSTALLATION METHOD; LOCATIONS”

   c. INTERIOR FINISH KEY: SC-1 SEALED CONCRETE ADD:
      i. “MANUFACTURER: SIKA CORPORATION”
      ii. “PATTERN: SCOFIELD SelectSeal Plus”
      iii. “INSTALLATION METHOD: FLOOR PREP – MECHANICALLY GRIND”
      iv. “LOCATIONS: DRILL HALL, … “

6. Sheet A801 ALT. NO. 2 – COLD STORAGE BUIDLING DEMOLITION & NEW WORK PLANS
   a. KEYNOTES – COLD STORAGE DEMOLTION PLAN
      i. ADD note “CS5 OVERHEAD DOOR – REMOVE”

   b. Drawing 02 COLD STORAGE – DEMOLTION PLAN
      i. ADD keynote “CS5” with leader pointing to overhead door to be removed.

7. Sheet A803 ALT. NO. 3 – OLD FMS – DEMOLITION, NEW WORK & REFLECTED CEILING PLANS
   a. KEYNOTES – OLD FMS DEMOLITION PLAN
      i. Note 3: REPLACE “WOOD WALL PANELING – REMOVE” with “WOOD WALL PANELING, FURRING STRIPS & ADHESIVE – REMOVE AND PROPERLY PREPARE WALL FOR NEW FINISH”

8. Sheet MD101 MAIN BUILDING MECHANICAL DEMO PLAN
    a. Drawing 1 HVAC PLAN MAIN BUILDING DEMO
        i. In MECH/ELEC 122 ADD note “REMOVE AND SALVAGE FURNACE AND RETURN DUCT AT FLOOR FOR NEW FLOORING TO BE INSTALLED” and REVISE drawing to indicate removal of furnace and ductwork.

9. Sheet M101 MAIN BUILDING MECHANICAL PLAN
    a. MECHANICAL KEYNOTES: REPLACE note 2 “EXISTING FURNACE TO REMAIN” with note “REINSTALL SALVAGED FURNACE AND DUCTWORK IN SAME LOCATION AFTER NEW FLOORING IS INSTALLED. RECONNECT INTO EXISTING SUPPLY AND RETURN DUCT.”

    b. Drawing 1 HVAC PLAN MAIN BUILDING
        i. In MECH/ELEC ADD note “EXISTING FURNACE TO REMAIN” with note “REINSTALL SALVAGED FURNACE AND DUCTWORK IN SAME LOCATION AFTER NEW FLOORING IS INSTALLED. RECONNECT INTO EXISTING SUPPPLY AND RETURN DUCT.” AND REVISE DRAWING TO INDICATE REINSTALLATION OF FURNACE AND RETURN DUCT.
        ii. REVISE drawing to indicate demolition of furnace.

10. Sheet ED101 ELECTRICAL DEMO PLAN
    a. Drawing 1 ELECTRICAL PLAN MAIN BUILDING DEMO
        i. In MECH/ELEC 122 ADD note “DISCONNECT FURNACE FROM BRANCH CIRCUIT FOR REMOVAL”
        ii. REVISE drawing to indicate disconnection of furnace.

11. Sheet EP101 MAIN BUILDING ELECTRICAL POWER PLAN
    a. Drawing 2 POWER PLAN ENLARGED KITCHEN
        i. In MECH/ELEC 122 ADD note “RECONNECT TO EXISTING BRANCH CIRCUIT PREVIOUSLY SERVING FURNACE”

12. Sheet PD101 MAIN BUILDING PLUMBING DEMO PLAN
    a. Drawing 1 PLUMBING PLAN MAIN BUILDING DEMO
        i. In MECH/ELEC ADD note “DISCONNECT FURNACE FROM GAS PIPING FOR REMOVAL” and REVISE drawing to indicate demolition of furnace.

13. Sheet P401 MAIN BUILDING PLUMBING PLANS ENLARGED
    a. Drawing 1 PLUMBING PLAN ENLARGED – WATER AND GAS
        i. In MECH/ELEC 122 ADD note “RECONNECT GAS PIPING TO FURNACE”

14. Sheet Q-FP-01 FOODSERVICE EQUIPMENT FLOOR PLAN
    a. EQUIPMENT SCHEDULE - LOG CLASSIFICATION
        i. REVISE note “B.” to be note “C.”

GENERAL COMMENTS:

1. The Pre-Bid Meeting was held August 13, 2024 followed by a walk-through of the project site. The Pre-Bid Meeting sign-in sheet is attached.
2. Bidders who wish to perform a site inspection should contact Joey Schaefer (573) 690-4945 to schedule a time to enter the facility.
3. Please contact Mandy Roberson, Contract Specialist, at (573) 522-0074, Mandy.Roberson@oa.mo.gov for questions about bidding procedures, MBE\WBE\SDVE Goals, and other submittal requirements.

4. The deadline for technical questions was 12:00 PM on Friday, August 16, 2024.
5. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
6. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
7. Current Planholders list is available online at: https://www.oafmdcplanroom.com/projects/2556/details/t2318-01-renovate-interior-exterior-mexico-readiness-center
8. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 7A, Columbia MO 65203, (573) 446-7768 to get plans and specifications.
9. **All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled including a bid amount for each alternate. Failure to do so will result in rejection of the bid.**
10. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**
11. **The Contractor shall pay not less than the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed, as determined by the Missouri Department of Labor and Industrial Relations.** Bidders are to adhere to Prevailing Wage Hourly Rate of Wages, and the Department of Labor and Industrial Relations can be contacted to determine the applicable wage rate for the work on this project.

ATTACHMENTS:

1. Pre-Bid Meeting Sign-In Sheet
2. Section 07 5323 - Ethylene-Propylene-Diene-Monomer (EPDM) Roofing
3. Section 09 6723 – Resinous Epoxy Flooring and Resinous Wall System
4. Sheet C-500 SITE CONSTRUCTION DETAILS
5. Sheet A203 MRC BUILDING ROOF PLAN
6. Sheet A601 WALL SECTIONS
7. Sheet A703 ROOM FINISH SCHEDULE & INTERIOR FINISH KEY
8. Sheet A801 ALT. NO. 2 – COLD STORAGE BUIDLING DEMOLITION & NEW WORK PLANS
9. Sheet A803 ALT. NO. 3 – OLD FMS – DEMOLITION, NEW WORK & REFLECTED CEILING PLANS
10. Sheet MD101 MAIN BUILDING MECHANICAL DEMO PLAN
11. Sheet M101 MAIN BUILDING MECHANICAL PLAN
12. Sheet ED101 ELECTRICAL DEMO PLAN
13. Sheet EP101 MAIN BUILDING ELECTRICAL POWER PLAN
14. Sheet PD101 MAIN BUILDING PLUMBING DEMO PLAN
15. Sheet P401 MAIN BUILDING PLUMBING PLANS ENLARGED
16. Sheet Q-FP-01 FOODSERVICE EQUIPMENT FLOOR PLAN

August 20, 2024

END ADDENDUM NO. 1

Pre-Bid Meeting Attendance Sheet
Renovate Interior & Exterior Readiness Center Building
Mexico Readiness Center
Mexico, Missouri

Project No. T2318-01
August 13, 2024 10:00 AM

Name & Title	Company Name & Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee & E-Mail Address of Individual filling out Bid Documents
Jen Hedrick	SOA Architecture		573-874-3418 x 207	hedrick@soa-inc.com
Joseph Schaefer	DPS-MOARNG Facilities-Design and Construction		573-638-9692	joseph.e.schaefer10.nfg@army.mil
Sandra Walther	OA/FMDC Project Manager		573-257-7322	sandra.walther@oa.mo.gov
Ken Sheputis	OA/FMDC Construction Administrator		573-248-2522	Kenneth.sheputis@oa.mo.gov
~~Ryan Mayer~~	Army National Guard		314-717-5076	ryan.s.mayer.mil@army.mil
~~Ryan Post~~	Army National Guard		573-253-1137	Ryan.c.post.mil@army.mil

Pre-Bid Meeting Attendance Sheet
Renovate Interior & Exterior Readiness Center Building
Mexico Readiness Center
Mexico, Missouri

Project No. T2318-01
August 13, 2024 10:00 AM

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee and E-Mail Address of Individual filling out Bid Documents
~~Anthony Blocker~~	Army National Guard		636-284-5892	anthony.j.blocker.mil@army.mil
~~Jonathan Swyres~~	Army National Guard			Johnathan.w.swyres.mil@army.mil
Abigail Ray	SOA Architecture		573-874-3418	ray@soa-inc.com
Chase Johnson	SOA Architecture		573-874-3418	johnson@soa-inc.com
~~Jacob Eiler~~	Crockett Engineering		573-447-0292	jeiler@crockettengineering.com
Shane Floyd	Custom Engineering Inc.		573-875-4365	sfloyd@customengr.com

Pre-Bid Meeting Attendance Sheet
Renovate Interior & Exterior Readiness Center Building
Mexico Readiness Center
Mexico, Missouri

Project No. T2318-01
August 13, 2024 10:00 AM

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee and E-Mail Address of Individual filling out Bid Documents
WAYNE PEARSON	S&A EQUIPMENT	YES	573-691-2143	WPEARSON@SAEQUIPMENTBUILDERS.com
Greg Huffman Division Mngr	Gmp plumbing	NO	636-464-2221	ghuffman@gmpplumbingstl.com
Trent Elliott Estimator	TS Companies LLC Electrical	Yes WBE	573-565-3469	telliott@tscompanies.com
Wyatt Ahart Project Manager	Kaiser Electric of Central Missouri	NO	573-55[illegible]-6488	Wahart@kaisercentralmo.com
Adam Eilers President	A. Eilers Construction General Contractor	No	314-623-1490	aeilers@aeilersconstruction.com same
Charles Saunders Director	SBS Construction	WBE	573-721-3564	Charles@SESCONSTRUCTION.com
Matt Roark	ARSI, Inc. Asbestos & Lead Abatement	SDVE	573-896-0222	Mattroark@arsi-mo.com
Kyle Asbury	IFS	NO		Kasbury@intfs.com

Pre-Bid Meeting Attendance Sheet
Renovate Interior & Exterior Readiness Center Building
Mexico Readiness Center
Mexico, Missouri

Project No. T2318-01
August 13, 2024 10:00 AM

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee and E-Mail Address of Individual filling out Bid Documents
Tom Lenox	Pro Prost LLC		573-645-6975	estimating@prostbuilders.com
Colby Patterson Lead Estimator	Wright Construction Services		636.220.6850	bids@wrightconstruct.com
DAVE BOECKMAN	C.A.R.E. SALES		573-346-2912	DAVE@CARESANDS.COM
Tommy Emms	Watkins Roofing		314-606-5161	thomase@watkinsroofing.net
Mike Burgart	G.B.H Builders		573-893-3633	Mike@gbhbuilders.com
Dalton Fifer	Weather craft		573-635-8141	df@wcrfg.com

Pre-Bid Meeting Attendance Sheet
Renovate Interior & Exterior Readiness Center Building
Mexico Readiness Center
Mexico, Missouri

Project No. T2318-01
August 13, 2024 10:00 AM

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee and E-Mail Address of Individual filling out Bid Documents
Daren Hufstetler Estimator / PM	Glovecon, Inc.	N	573-220-6800 573-642-6383	daren.hufstetler@glovecon.com
David Bax PM/Estimator	Missouri Builders Service, Inc.	N	573-636-7933 ext. 219	dbax@missouribuilders.net
Aaron Zoller P.M.	Midwest Service Group Abatement/Subcontractor	WBE	636-262-4360	Azeller@MSG-STL.com
Erik Rodriguez Estimator /	JRb Drywall Corp.	N	573 489 8791	Jrdrywallconstruction co@gmail.com
Tim Crockett	Crockett Engineering	N	573.447.0292	tim@crockettengineering.com
Bailey Huhmann	Brown + Root	N	573 353 7495	baileyhuhmann@brownandroot.com
Mike Webster	Star Heating & AC	N	573-881-9157	mike@StarHeat.com

SECTION 07 5323 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

(Revised 2024-08-19)

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Ethylene-propylene-diene-terpolymer (EPDM) roofing.
2. Accessory roofing materials.
3. Roof insulation.
4. Insulation accessories and cover board.
5. Secondary roof protection sheet.
6. Walkways.
7. Grease containment system.

B. Related Requirements:

1. Section 06 1000 "Rough Carpentry for wood nailers, curbs, and blocking.
2. Section 07 6200 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.
3. Section 07 7100 "Roof Specialties" for roof edge flashings.
4. Section 07 9200 "Joint Sealants" for joint sealants, joint fillers, and joint preparation.

1.2 DEFINITIONS

A. Roofing Terminology: Definitions in ASTM D1079 and glossary of NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to work of this Section.

1.3 ACTION SUBMITTALS

A. Product Data:

1. Ethylene-propylene-diene-terpolymer (EPDM) roofing.
2. Accessory roofing materials.
3. Roof insulation.
4. Insulation accessories and cover board.
5. Walkways.

B. Product Data Submittals:

1. For insulation and roof system component fasteners, include copy of FM Approvals' RoofNav listing.

C. Shop Drawings: Include roof plans, sections, details, and attachments to other work, including the following:

1. Layout and thickness of insulation.
2. Base flashings and membrane terminations.
3. Flashing details at penetrations.

4. Tapered insulation, thickness, and slopes.
5. Roof plan showing orientation of steel roof deck and orientation of roof membrane and fastening spacings and patterns for mechanically fastened roofing system.
6. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.
7. Tie-in with air barrier.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and manufacturer.

B. Manufacturer Certificates:

1. Performance Requirement Certificate: Signed by roof membrane manufacturer, certifying that roofing system complies with requirements specified in "Performance Requirements" Article.

a. Submit evidence of complying with performance requirements.

2. Special Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for special warranty.

C. Product Test Reports: For components of roof membrane and insulation, for tests performed by a qualified testing agency, indicating compliance with specified requirements.

D. Sample Warranties: For manufacturer's special warranties.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For roofing system to include in maintenance manuals.

B. Certified statement from existing roof membrane manufacturer stating that existing roof warranty has not been affected by Work performed under this Section.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: A qualified manufacturer that is listed in FM Approvals' RoofNav for roofing system identical to that used for this Project.

B. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.

B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.

1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.

C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.

D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.8 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed in accordance with manufacturer's written instructions and warranty requirements.

1.9 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.

1. Special warranty includes roof membrane, base flashings, roof insulation, fasteners, cover boards, and other components of roofing system.
2. Warranty Period: 20 years from Date of Substantial Completion.

B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system such as roof membrane, base flashing, roof insulation, fasteners, cover boards, and walkway products, for the following warranty period:

1. Warranty Period: Two years from Date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Installed roofing system and base flashings to withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roofing and flashings to remain watertight.

1. Accelerated Weathering: Roof membrane to withstand 2000 hours of exposure when tested in accordance with ASTM G152, ASTM G154, or ASTM G155.
2. Impact Resistance: Roof membrane to resist impact damage when tested in accordance with ASTM D3746, ASTM D4272, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.

B. Material Compatibility: Roofing materials to be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.

C. FM Approvals' RoofNav Listing: Roof membrane, base flashings, and component materials comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing

system, and are listed in FM Approvals' RoofNav for Class 1 or noncombustible construction, as applicable. Identify materials with FM Approvals Certification markings.

1. Fire/Windstorm Classification: Class 1A-105 .
2. Hail-Resistance Rating: FM Global Property Loss Prevention Data Sheet 1-34 SH .

D. SPRI's Directory of Roof Assemblies Listing: Roof membrane, base flashings, and component materials comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and are listed in SPRI's Directory of Roof Assemblies for roof assembly identical for that specified for this Project.

1. Wind Uplift Load Capacity: 90 psf .

2.2 ETHYLENE-PROPYLENE-DIENE-TERPOLYMER (EPDM) ROOFING

A. EPDM Sheet: ASTM D4637/D4637M, Type I, nonreinforced, EPDM sheet with factory-applied seam tape.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Carlisle Syntec Systems.
   b. Elevate; Holcim Building Envelope.
   c. Versico Roofing Systems; Carlisle Construction Materials.

2. Thickness: 60 mils , nominal.
3. Exposed Face Color: Black .
4. Source Limitations: Obtain components for roofing system from roof membrane manufacturer or manufacturers approved by roof membrane manufacturer.

2.3 ACCESSORY ROOFING MATERIALS

A. General: Accessory materials recommended by roofing system manufacturer for intended use and compatible with other roofing components.

1. Adhesive and Sealants: Comply with VOC limits of authorities having jurisdiction.

B. Sheet Flashing: 60-mil- thick EPDM, partially cured or cured, according to application.

C. Protection Sheet: Epichlorohydrin or neoprene nonreinforced flexible sheet, 55 to 60 mils thick, recommended by EPDM manufacturer for resistance to hydrocarbons, non-aromatic solvents, grease, and oil.

D. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.

E. Roof Vents: As recommended by roof membrane manufacturer.

1. Size: Not less than 4-inch diameter.

F. Bonding Adhesive: Manufacturer's standard.

G. Seaming Material: Manufacturer's standard, synthetic-rubber polymer primer and 3-inch- wide minimum, butyl splice tape with release film .

H. Lap Sealant: Manufacturer's standard, single-component sealant , colored to match membrane roofing.

I. Water Cutoff Mastic: Manufacturer's standard butyl mastic sealant.

J. Metal Termination Bars: Manufacturer's standard, predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.

K. Metal Battens: Manufacturer's standard, aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch wide by 0.05 inch thick, prepunched.

L. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening components to substrate, and acceptable to roofing system manufacturer.

M. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, molded pipe boot flashings, preformed inside and outside corner sheet flashings, reinforced EPDM securement strips, T-joint covers, in-seam sealants, termination reglets, cover strips, and other accessories.

2.4 ROOF INSULATION

A. General: Preformed roof insulation boards manufactured or approved by EPDM roof membrane manufacturer**,** approved for use in FM Approvals' RoofNav-listed roof assemblies.

B. Polyisocyanurate Board Insulation: ASTM C1289, Type II, Class 1 felt facer on both major surfaces.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

    a. Atlas Polyiso Roof and Wall Insulation.
    b. Carlisle Syntec Systems.
    c. CertainTeed; SAINT-GOBAIN.
    d. Elevate; Holcim Building Envelope.

2. Compressive Strength: 25 psi.
3. Size: 48 by 48 inches .
4. Thickness:

    a. Base Layer: 2 inches .
    b. Upper Layer: ½ inch start, tapered at ¼ inch per foot.
    c. Tapered Insulation: Provide factory-tapered insulation boards.

5. Material: Match roof insulation.
6. Minimum Thickness: 1/2 inch.
7. Slope:

    a. Roof Field: 1/4 inch per foot unless otherwise indicated on Drawings.
    b. Saddles and Crickets: 1/2 inch per foot unless otherwise indicated on Drawings.

2.5 INSULATION ACCESSORIES AND COVER BOARD

A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with other roofing system components.

B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.

C. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to substrate or to another insulation layer as follows:

1. Full-spread, spray-applied, low-rise, two-component urethane adhesive.

D. Glass-Mat Gypsum Cover Board: ASTM C1177/C1177M, water-resistant gypsum substrate.

1. Thickness: 1/2 inch .
2. Surface Finish: Fiberglass faced.

E. Protection Mat: Woven or nonwoven polypropylene, polyolefin, or polyester fabric; water permeable and resistant to UV degradation; type and weight as recommended by roofing system manufacturer for application.

2.6 WALKWAY PADS

A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads or rolls, approximately 3/16 inch thick and acceptable to roofing system manufacturer.

1. Size: 30 inch width minimum and no greater than 60 inch length with minimum of 6 inches between each pad for positive drainage

2. Attachment: factory applied tape

2.7 GREASE CONTAINMENT SYSTEM

A. Grease containment system: bracketed, multi-layer filter system of hydrophobic material designed to resistant roof damage caused by cooking vent exhaust while allowing rainwater to pass through filtration system.

1. Frame: aluminum or galvanized steel bracket.
2. System Size: 60 inches square

3. System assembly: four-layer system with ¼” hold down rods

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.

1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
3. Verify that surface plane flatness and fastening of steel roof deck complies with requirements in Section 05 3100 "Steel Decking."

4. Verify that joints in precast concrete roof decks have been grouted flush with top of concrete.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing system installation in accordance with roofing system manufacturer's written instructions. Remove sharp projections.

B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

3.3 INSTALLATION OF ROOFING, GENERAL

A. Install roofing system in accordance with roofing system manufacturer's written instructions, FM Approvals' RoofNav assembly requirements, and FM Global Property Loss Prevention Data Sheet 1-29.

3.4 INSTALLATION OF INSULATION

A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at end of workday.

B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.

C. Installation Over Existing Decking:

1. Install base layer of insulation with joints staggered not less than 24 inches in adjacent rows and with long joints continuous at right angle to flutes of decking.

    a. Locate end joints over crests of decking.
    b. Where installing composite and noncomposite insulation in two or more layers, install noncomposite board insulation for bottom layer and intermediate layers, if applicable, and install composite board insulation for top layer.
    c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
    d. Make joints between adjacent insulation boards not more than 1/4 inch in width.

    e. Fill gaps exceeding 1/4 inch with insulation.
    f. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
    g. Mechanically attach base layer of insulation using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to metal decks.

        1) Fasten insulation in accordance with requirements in FM Approvals' RoofNav for specified Windstorm Resistance Classification.
        2) Fasten insulation to resist specified uplift pressure at corners, perimeter, and field of roof.

2. Install upper layers of insulation and tapered insulation with joints of each layer offset not less than 12 inches from previous layer of insulation.

a. Staggered end joints within each layer not less than 24 inches in adjacent rows.
b. Install with long joints continuous and with end joints staggered not less than 12 inches in adjacent rows.
c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
d. Make joints between adjacent insulation boards not more than 1/4 inch in width.
e. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches.
f. Trim insulation so that water flow is unrestricted.
g. Fill gaps exceeding 1/4 inch with insulation.
h. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
i. Adhere each layer of insulation to substrate using adhesive in accordance with FM Approvals' RoofNav listed roof assembly requirements for specified Windstorm Resistance Classification and FM Global Property Loss Prevention Data Sheet 1-29, as follows:

    1) Set each layer of insulation in a solid mopping of hot roofing asphalt, applied within plus or minus 25 deg F of equiviscous temperature.
    2) Set each layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
    3) Set each layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

3.5 INSTALLATION OF COVER BOARDS

A. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction.

1. Trim cover board neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
2. At internal roof drains, conform to slope of drain sump.

    a. Trim cover board so that water flow is unrestricted.

3. Cut and fit cover board tight to nailers, projections, and penetrations.

3.6 INSTALLATION OF ADHERED ROOF MEMBRANE

A. Adhere roof membrane over area to receive roofing in accordance with roofing system manufacturer's written instructions.

B. Unroll membrane roof membrane and allow to relax before installing.

C. Start installation of roofing in presence of roofing system manufacturer's technical personnel and Owner's Construction Representative.

D. Accurately align roof membrane, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.

E. Bonding Adhesive: Apply to substrate and underside of roof membrane at rate required by manufacturer, and allow to partially dry before installing roof membrane. Do not apply to splice area of roof membrane.

F. In addition to adhering, mechanically fasten roof membrane securely at terminations, penetrations, and perimeters.

G. Apply roof membrane with side laps shingled with slope of roof deck where possible.

H. Adhesive Seam Installation: Clean both faces of splice areas, apply splicing cement.

1. Firmly roll side and end laps of overlapping roof membrane to ensure a watertight seam installation.
2. Apply lap sealant and seal exposed edges of roofing terminations.
3. Apply a continuous bead of in-seam sealant before closing splice if required by roofing system manufacturer.

I. Tape Seam Installation: Clean and prime both faces of splice areas, apply splice tape.

1. Firmly roll side and end laps of overlapping roof membrane to ensure a watertight seam installation.
2. Apply lap sealant and seal exposed edges of roofing terminations.

J. Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.

K. Spread sealant or mastic bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.

L. Adhere protection sheet over roof membrane at locations indicated.

3.7 INSTALLATION OF BASE FLASHING

A. Install sheet flashings and preformed flashing accessories, and adhere to substrates in accordance with roofing system manufacturer's written instructions.

B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.

C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.

D. Clean splice areas, apply splicing cement, and firmly roll side and end laps of overlapping sheets to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of sheet flashing terminations.

E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.8 INSTALLATION OF WALKWAY PADS

A. Flexible Walkways: Install walkway products in accordance with manufacturer's written instructions.

1. Install flexible walkways at the following locations:

a. Perimeter of each rooftop unit.
b. Between each rooftop unit location, creating a continuous path connecting rooftop unit locations.
c. Between each roof hatch and each rooftop unit location or path connecting rooftop unit locations.
d. Top and bottom of each roof access ladder.
e. Between each roof access ladder and each rooftop unit location or path connecting rooftop unit locations.

f. Locations indicated on Drawings.
g. As required by roof membrane manufacturer's warranty requirements.
h. Continuous under grease containment system

2. Provide 6-inch clearance between adjoining pads.
3. Adhere walkway products to substrate with compatible adhesive in accordance with roofing system manufacturer's written instructions.

3.9 INSTALLATION OF GREASE CONTAINMENT SYSTEM

A. Containment system: Install products in accordance with manufacturer's written instructions.

1. Install system at the following locations:

a. At kitchen hood exhaust as indicated on the Drawings.

b. Install each layer per manufacturer’s written requirements for proper function.

Install hold-down rods or clips to prevent uplift of filters.

2. Protect roofing substrate with continuous walk pad under grease containment system frame attachment points.

3.10 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to inspect substrate conditions, surface preparation, roof membrane application, sheet flashings, protection, and drainage components, and to furnish reports to Architect.

B. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion, in presence of Architect, and to prepare inspection report.

C. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.

D. Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.

3.11 PROTECTING AND CLEANING

A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing system, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.

B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and in accordance with warranty requirements.

C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

3.12 ROOFING INSTALLER'S WARRANTY

A. WHEREAS _____ of _____, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:

1. Owner: <**Insert name of Owner>**.
2. Owner Address: <**Insert address>**.
3. Building Name/Type: <**Insert information>**.
4. Building Address: <**Insert address>**.
5. Area of Work: <**Insert information>**.
6. Acceptance Date: _____.
7. Warranty Period: <**Insert time>**.
8. Expiration Date: _____.

B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,

C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period Roofing Installer will, at Roofing Installer's own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.

D. This Warranty is made subject to the following terms and conditions:

1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:

    a. lightning;
    b. peak gust wind speed exceeding <**Insert mph>**;
    c. fire;
    d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
    e. faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
    f. vapor condensation on bottom of roofing; and
    g. activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.

2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.
3. Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Roofing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.

5. During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change, but only to the extent said change affects work covered by this Warranty.
6. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks, defects, or deterioration.
7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

E. IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, _____.

1. Authorized Signature: _____.
2. Name: _____.
3. Title: _____.

END OF SECTION 07 5323

09 6723 RESINOUS EPOXY FLOORING AND RESINOUS WALL SYSTEM

(Revised 2024-08-19)

PART 1 - **GENERAL**

1.1 SUMMARY

A. Section includes the surface preparation and application requirements of high-performance resinous floor coating systems by a qualified applicator.

1. High-performance resinous flooring systems.
2. High-performance integral wall base systems.
3. Metal Wall and Floor Transitions.
4. Fiberglass mat joint treatment.

B. Coordination:

1. Coordinate surface preparation of substrates to avoid later difficulty or delay in performing the Work of this Section.
2. Review installation procedures under other Sections and coordinate the installation of items that must be installed prior to application of the resinous floor coating systems.
3. Substrate surface preparation and resinous floor coating application, including concrete resurfacing, to be completed by manufacturer's approved Applicator.
4. The Applicator shall coordinate with Architect/General Contractor regarding the availability of work areas, completion times, safety, access and other factors which could impact plant operations.

C. Related Sections:

1. Section 03 3000, Cast-in-Place Concrete

1.2 REFERENCES

A. This Section contains references to the governing standards and documents listed below. They are a part of this Section as specified and modified; the current version shall apply unless otherwise noted. In case of conflict between the requirements of this section and those of the listed documents, the more stringent of the requirements shall prevail.

B. American Concrete Institute (ACI):

1. ACI 301-10 – Specifications for Structural Concrete
2. ACI 308R – Guide to Curing Concrete

C. ASTM International (ASTM):

1. ASTM D4263 – Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method.
2. ASTM D4414 – Standard Practice for Measurement of Wet Film Thickness by Notch Gages.
3. ASTM F1869 – Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.

4. ASTM F2170 – Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.

D. International Concrete Repair Institute (ICRI):

1. Guideline No. 310.2 – Selecting and Specifying Concrete Surface Preparation for Sealer, Linings, and Polymer Overlays

E. NACE International (NACE):

1. NACE No. 6/SSPC-SP13 – Surface Preparation of Concrete

F. SSPC: The Society for Protective Coatings, (SSPC)

1. SSPC-SP13/NACE No. 6 Surface Preparation of Concrete

G. Unless otherwise specified, references to documents shall mean the documents in effect at the time of receipt of Bids. If referenced documents have been discontinued by the issuing organization, references to those documents shall mean the replacement documents, the last version of the document before it was discontinued.

1.3 SUBMITTALS

A. Product Data Sheets: Copies of current technical data for each component specified and applied as outlined in this Section.

B. Safety Data Sheets: Copies of current Safety Data Sheets (SDS) for any materials brought on-site, including clean-up solvents, repair or resurfacing mortars and coating materials.

C. Installation Instructions: Manufacturer's written installation instructions for the materials specified in this Section.

D. Qualification Data: Submit proof of acceptability of the Applicator by manufacturer to Architect.

E. Construction Details: Copies of manufacturer's computer generated standard flooring details.

F. Jobsite Layout Plan: Including material storage/staging and equipment storage /staging.

G. Samples: For each resinous floor coating system submit a 3" x 6" sample of the system. Color, Texture and thickness shall be representative of the overall appearance as specified.

H. Jobsite Reports: Submit at the completion of Work

1. Daily Reports: Include surface preparation, substrate temperature, ambient air temperature, application procedures, materials applied, material quantities, material batch number, description of work completed and location thereof.
2. The Applicator shall maintain a copy of records until the expiration of the specified warranty period.

1.4 QUALITY ASSURANCE

A. Applicator Qualifications:

1. Applicator shall be qualified by the manufacturer prior to bid date.
2. Installation equipment shall be acceptable to the manufacturer.

3. Applicator shall establish quality control procedures and practices to monitor phases of surface preparation, storage, mixing, application, and inspection throughout the duration of the project.
4. Applicator shall provide a fulltime, on-site person whose dedicated responsibilities will include quality control of the application.
5. Applicator's quality control procedures and practices must include the following items:

    a. Training of personnel in the proper surface preparation requirements.
    b. Training of personnel in the proper storing, mixing, and application and quality control testing.

B. Pre-Installation Conference:

1. Before installing mock-ups General Contractor, Applicator, and Technical Representative of the Manufacturer shall meet on-site with Architect to discuss approved products and workmanship to ensure proper application of the products and substrate preparation requirements.
2. Review foreseeable methods and procedures related to the Work including but not necessarily limited to the following:

    a. Review Project Requirements and the Contract Documents.
    b. Review required submittals.
    c. Review status of substrate Work, including approval of surface preparations and similar considerations.
    d. Review requirements of on-site quality control inspection and testing.
    e. Review the requirements for preparing the quality control report as specified herein.
    f. Review availability of materials, tradesmen, equipment and facilities needed to make progress and avoid delays.
    g. Review material storage and staging.
    h. Review equipment storage and staging.
    i. Review waste management and disposal.
    j. Review environmental conditions, other project conditions, and procedures for coping with unfavorable conditions.
    k. Review regulations concerning code compliance, environmental protection, health, safety, fire and similar considerations.
    l. Review procedures required for the protection of the completed Work during the remainder of the construction period.

C. Single-Source Responsibility:

1. Materials shall be products of a single manufacturer or items standard with manufacturer of specified resinous floor coating materials.
2. Provide secondary materials which are produced or are specifically recommended by resinous floor coating system manufacturer to ensure compatibility of system.

D. Regulatory Requirements: Conform to applicable codes and ordinances for flame, fuel, smoke and volatile organic compounds (VOC) ratings requirements for finishes at time of application.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Delivery of Materials:

1. Deliver material in manufacturer's original, unopened and undamaged packages.
2. Clearly identify manufacturer's, brand name, contents, color, batch number, and any personal safety hazards associated with the use of or exposure to the materials on each package.

3. Packages showing indications of damage that may affect condition of contents are not acceptable.

B. Storage of Materials:

1. Materials shall be stored in accordance with manufacturer's recommendations in enclosed structures and shall be protected from weather and adverse temperature conditions.
2. Flammable materials shall be stored in accordance with state and local codes. Materials exceeding storage life as defined by the manufacturer shall be removed promptly from the site. Store materials only in area or areas designated by the Architect solely for this purpose.
3. Store in original packaging under protective cover and protect from damage.
4. Stack containers in accordance with manufacturer’s recommendations.

C. Handling of Materials: Handle materials in such a manner as to prevent damage to products or finishes.

1.6 JOB CONDITIONS

A. Environmental Requirements:

1. Proceed with Work only when temperature and moisture conditions of substrates, air temperature, relative humidity, dew point and other conditions comply with the manufacturer’s written recommendations and when no damaging environmental conditions are forecasted for the time when the material will be vulnerable to such environmental damage. Record such conditions and include in daily quality control report.
2. Maintain substrate temperature and ambient air temperature before, during and after installation above 55°F and rising in accordance with manufacturer’s instructions.
3. Provide adequate ventilation during installation and full curing periods of the Work.
4. Coatings shall not be applied when ambient air temperature is within 5°F of the dew point and falling.

B. Dust and Contaminants: Protect work and adjacent areas from excessive dust and airborne contaminants during application and curing. Schedule Work to avoid excessive dust and airborne contaminants.

C. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent light conditions during resinous flooring application.

D. Close space to traffic during resinous flooring application and for not less than 24 hours after application, unless manufacturer recommends a longer period.

1.7 WARRANTY

A. Submit manufacturer’s standard warranty for material.

B. Submit Applicator’s standard warranty for workmanship.

PART 2 - **PRODUCTS**

2.1 MANUFACTURERS

A. Basis of design: Products of Tnemec Company, Inc., Kansas City, Missouri (816) 474-1616 www.tnemec.com are listed to establish a standard of performance and quality.

1. Other Approved Manufacturers:

    a. Sherwin Williams High Performance Flooring
    b. Desco

B. Materials specified are those that have been evaluated for the specific service. Request for material substitutions shall be in accordance with the requirements of the project specifications. Equivalent materials of other manufacturers may be submitted on written approval of the Architect. No request for substitution shall be considered that would decrease film thickness or offer a change in the generic type of coating specified. In no case will the request be considered unless information is received, in writing, ten (10) days prior to the bid opening date.

C. Requests for substitution shall include:

1. Manufacturer's literature for each product giving name, product number, generic type, descriptive information, laboratory testing showing results equal to the performance criteria of the products specified herein.
2. Side by side comparison of the performance attributes of the proposed materials as compared to the specified coating system.
3. List of ten (10) projects in which each product has been used and rendered satisfactory service.
4. The sum which will be added to or deducted from the base bid should alternate materials be accepted.

2.2 GENERAL

A. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction.

2.3 MATERIALS

A. Troweled Quartz Floors:

1. Coving: Tnemec Series 283 Coving Resin blended with aggregate
2. Tnemec Series 208 Epoxoprime MVT
3. Mortar: Tnemec Series 223 Deco-Trowel
4. First Grout: Tnemec Series 284 Deco-Clear
5. Grout: Tnemec Series 285 Satinglaze

    a. *NOTE: Additional grout coats may be required to achieve desired slip resistance.*

6. Finish: Tnemec Series 248 Everthane

B. Troweled Quartz Walls:

1. Primer: Tnemec Series 201 Epoxoprime
2. Mortar: Tnemec Series 285 Satinglaze blended with aggregate
3. Grout: Tnemec Series 285 Satinglaze

4. Finish: Tnemec Series 285 Satinglaze

C. Fiberglass mat joint treatment:

1. Location: In individual shower stalls, at cold joint where cement board substrate and cast-in-place concrete curb meet.
2. Series 215 with an embedded fiberglass mat Series 273 Part C 3” mat.
3. Finish: Troweled Quartz Wall System on top of fiberglass mat at joint.

2.4 GENERAL

A. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction.

2.5 ACCESSORY MATERIALS

A. Patching and Fill Material: Resinous product of or approved by manufacturer and recommended by manufacturer for application indicated.

B. Joint Sealant: Type recommended or produced by manufacturer for type of service and joint condition indicated.

1. Joint at individual shower stalls where cement board and concrete curb meet: Series 215 with an embedded fiberglass mat Series 273 Part C 3” mat.

PART 3 - EXECUTION

3.1 GENERAL

A. The Applicator shall cover or otherwise protect finish work or other surfaces not being coated within the scope of this Section. The Applicator shall erect and maintain protective tarps, enclosures and/or masking to contain debris, including dust or other airborne particles from surface preparation or application activities. This may include the use of dust or debris collection apparatus as required at no additional cost to Owner.

3.2 EXAMINATION

A. Site Verification of Conditions

1. The Applicator shall examine the areas and conditions under which the resinous floor coating Work is to be performed in accordance with NACE SP0892 and SSPC-SP13/NACE No. 6, and notify Architect in writing of conditions detrimental to the proper and timely completion of the Work.
2. All concrete should be cured using the procedures described in ACI 308, allowing a minimum of 28 days at 75F.
3. The Applicator shall confirm the presence of a vapor barrier to protect against the effects of moisture vapor transmission.
4. Commencement of the Work of this Section shall indicate that the substrate and other conditions of installation are acceptable to the Contractor and his Applicator, and will produce a finished product meeting the requirements of the Specifications. Defects resulting from accepted conditions shall be corrected by the Applicator at his own expense.

3.3 SURFACE PREPARATION

A. Concrete surfaces to receive resinous floor coatings shall be poured with a Smooth Troweled Finish in accordance with ACI 301.

B. All surfaces must be clean, dry and free of oil, grease and other contaminants, prior to preparation in accordance with NACE No. 6/SSPC-SP13. Concrete surfaces must be sound and capable of supporting the resinous floor coating system.

C. Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Shot-blast or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers, existing coatings, and other contaminants and to provide the recommended ICRI-CSP Profile.

D. Cracks, voids and other surface imperfections should be filled with the recommended filler or surfacer prior to the installation of the materials.

E. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through the resinous floor coating system according to manufacturer's written recommendations.

3.4 APPLICATION

A. General: Apply components of resinous floor system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.

1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
3. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's written recommendations.

    a. Apply joint sealant to comply with manufacturer’s written recommendations.

B. Apply products in accordance with Manufacturer’s written instruction as outlined in application guides and product data sheets.

C. Comply with manufacturer's written instructions for mixing and preparing materials and as applicable to substrates.

D. Terminations shall be installed in accordance with the StrataShield Standard Flooring Details Guide.

E. Areas not to receive resinous floor coating system shall be masked or otherwise protected to prevent these surfaces from being coated.

F. Surface Temperature: Prior to application, the surface temperature shall be per manufacturer’s written recommendations.

G. Material Temperature: Prior to application, the material temperature shall be per manufacturer’s written recommendations or between 65 degrees F and 85 degrees F. The material shall be stored at these temperatures at least 48 hours prior to use.

H. Apply resinous floor coatings according to manufacturer's written instructions. Use applicators and techniques suited for resinous floor coatings and substrate indicated.

I. Apply each material at not less than manufacturer's recommended spreading rate. Provide total cured material thickness indicated or as recommended in writing by manufacturer.

3.5 FIELD QUALITY CONTROL, INSPECTION AND TESTING

A. The Applicator shall perform the quality control procedures listed below in conjunction with the requirements of this Section.

B. Inspect materials upon receipt to ensure that they are supplied by the approved Manufacturer.

C. Surface Profile: Inspect and record substrate profile (anchor pattern). Surfaces shall be profiled equal to the required CSP amplitude as recommended by the resinous floor coating manufacturer in accordance with ICRI Guideline 310.2 and SSPC-SP13/NACE No. 6.

1. Compare and record the substrate profile once every 50 square feet with the Concrete Surface Profile (CSP) comparators in accordance with ICRI Guideline No. 310.2.

D. Surface Cleanliness: Prepared concrete surfaces shall be inspected for surface cleanliness after cleaning and drying, prior to resurfacing or coating application.

E. Concrete Moisture Testing: After surface preparation verify concrete dryness in accordance with ICRI Guideline 310.2 and SSPC-SP13/NACE No. 6 and the following test methods.

1. ASTM F1869 – Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.

   a. Moisture vapor transmission not to exceed 15 pounds per 1,000 square feet in a 24 hour period.

2. ASTM F2170 – Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.

   a. Relative humidity not to exceed 95 percent.

3. Consult manufacturer regarding questions and or recommendations in reference to moisture problems.

F. Measure and record ambient air temperature, relative humidity and dew point temperature once every two hours of each work shift.

G. Measure and record substrate temperature once every two hours using an infrared or other surface thermometer.

H. Dry-Film Thickness shall be determined using a surface area calculation for material consumption.

I. The Applicator is responsible for keeping the Architect informed of progress so that Architect may provide additional quality control at his/her discretion.

J. Inspection by the Architect or others does not absolve the applicator from his responsibilities for quality control inspection and testing as specified herein or as required by the Manufacturer's instructions.

K. Material Sampling: Owner may at any time and any number of times during the resinous flooring application require material samples for testing for compliance with requirements.

1. Contractor will engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed, and certified in the presence of Contractor, Architect and Construction Representative.
2. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
3. If test results show applied materials do not comply with specified requirements, pay for testing, remove noncomplying materials, prepare surfaces coated with unacceptable materials, and reapply flooring materials to comply with requirements.

3.6 MANUFACTURER'S FIELD SERVICES

A. Manufacturer's technical representative shall provide technical assistance and guidance for surface preparation and application of coating systems.

3.7 ACCEPTANCE CRITERIA

A. All surfaces shall be prepared, applied, and tested in accordance with the specification and referenced standards herein.

3.8 CLEANING AND PROTECTING

A. Protect the completed Work from traffic, physical abuse, liquids, and chemical exposure until the complete system has thoroughly cured for 24 hours.

B. At the completion of the Work, the Applicator shall remove materials and debris associated with the Work of this Section.

C. Clean surfaces not designated to receive resinous floor coating system. Restore areas in a manner acceptable to Architect.

D. Protect the completed Work from damage until Final Acceptance. Resinous floor coating systems damaged in any manner shall be repaired or replaced at the discretion of Architect, at no additional cost to Owner.

3.9 COATING SCHEDULE- TROWELED QUARTZ FLOOR

A. Surface Preparation: Prepare in accordance with SSPC-13/NACE 6 and ICRI Technical Guidelines. Abrasive Blast, shot-blast or mechanically abrade concrete surfaces to provide a minimum ICRI-CSP 3 or greater surface profile.

B. Coving: Tnemec Series 283 Coving Resin blended with Torginol's Dalmatian Quartz aggregate

1. Seal cove using Tnemec's Series 283 Coving Resin. Ensure no resin puddles at the floor to cove transition.
2. A smooth tape line transition to the wall system is desired. Talk with Tnemec representative for additional information.

C. Primer: Tnemec Series 208 Epoxoprime MVT applied at 80-100 sqft/gal

D. Mortar Coat: Tnemec Series 223 Deco-Trowel blended with Torginol's Dalmatian Quartz and applied at ¼"

E. Grout Coat: Tnemec Series 284 Deco-Clear applied at 80–100 square feet per gallon

F. Second Grout Coat: Series 285 Satinglaze applied at 150-200 square feet per gallon

1. The finished appearance and texture will depend on the film thickness and number of coats applied. Mock-ups should be applied to determine the desired finish appearance and texture.
2. Added slip resistance may be required depending on the location of the system.

G. Finish Coat: High-Solids Aliphatic Moisture Cured Urethane at 550-600 square feet per gallon

H. Total System Thickness: 1/4 inch

3.10 COATINGS SCHEDULE- TROWELED QUARTZ WALLS

A. Surface Preparation: Must be clean, dry and free of oil, grease and other contaminants.

1. Ensure moisture resistant joint compound has been used for sealing joints in substrate.
2. Walls to be Troweled Quartz Wall System. Fiberglass mat joint treatment only at the joint of individual shower stalls where cement board substrate and concrete curb meet.

a. Series 215 with an embedded fiberglass mat Series 273 Part C 3” mat. Troweled Quartz Wall System on top of fiberglass mat at joint.

B. Primer: Tnemec Series 201 Epoxoprime applied at 200 sqft/gal

C. Mortar Coat: Tnemec Series 285 Satinglaze blended with Torginol’s Dalmatian Quartz and applied at a nominal 3/16th-1/8th inch.

1. Ensure no resin puddles down the wall.
2. A smooth tape line transition from the wall to ceiling is desired. Talk with Tnemec representative for additional information.

D. Grout Coat: Tnemec Series 285 Satinglaze applied at 80–100 square feet per gallon

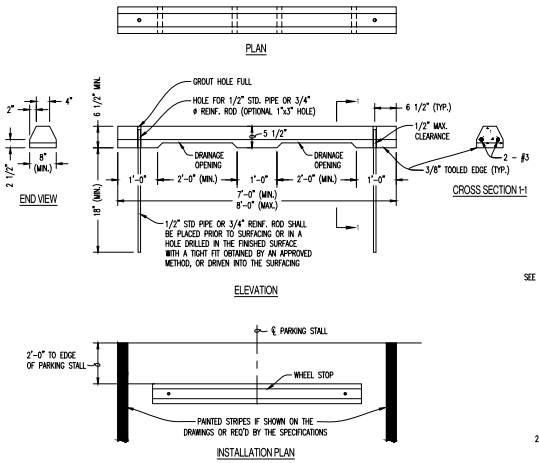
E. Second Grout Coat: Series 285 Satinglaze applied at 150-200 square feet per gallon

1. The finished appearance and texture will depend on the film thickness and number of coats applied. Mock-ups should be applied to determine the desired finish appearance and texture.

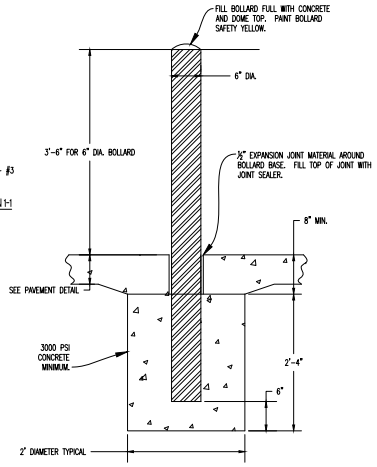
F. Metal Transition - Wall: (TR-1)

1. Metal trim, Schluter Schiene or Equal. Continuous trim as shown on the Interior Elevations on Drawings. Clean termination edge for Resinous Wall System.

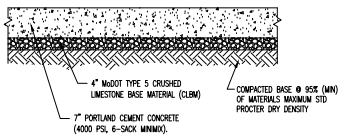
END OF SECTION 09 6723



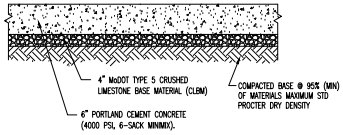
PRECAST CONCRETE WHEEL STOP DETAILS



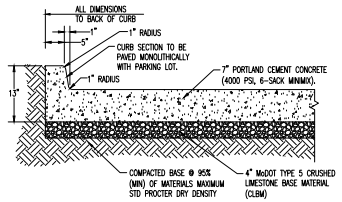
BOLLARD INSTALLATION DETAIL



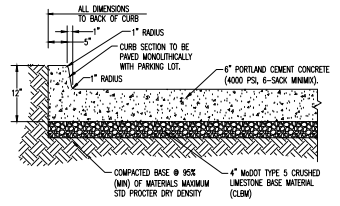
TYPICAL CONCRETE PAVEMENT CROSS SECTION (HEAVY DUTY)



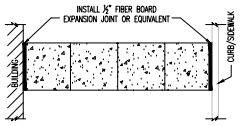
TYPICAL CONCRETE PAVEMENT CROSS SECTION (LIGHT DUTY)



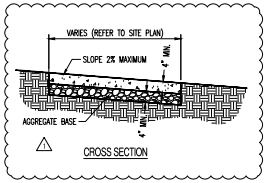
6" BARRIER CURB CROSS-SECTION (HEAVY DUTY)



6" BARRIER CURB CROSS-SECTION (LIGHT DUTY)

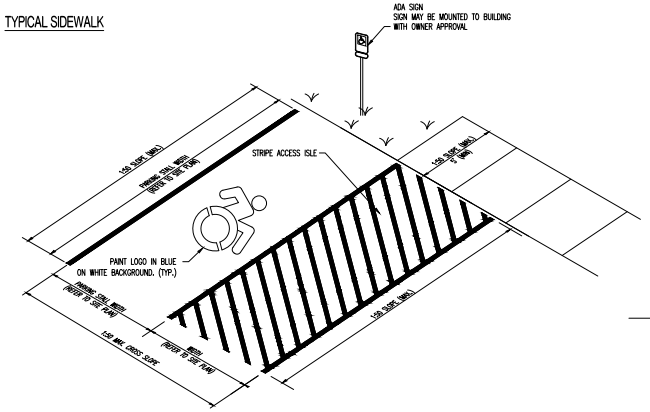


TYPICAL LOCATION OF EXPANSION JOINT AT BUILDING/CURB

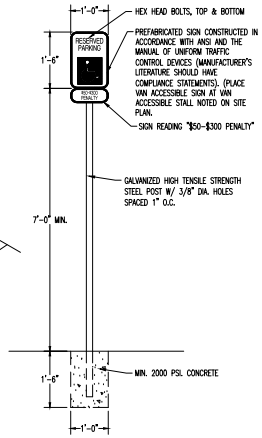


NOTE:
1. SIDEWALK SHALL BE 4" THICK CLASS A CONCRETE ON 4" AGGREGATE BASE.
2. INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, AND DRIVEWAY APPROACHES. MAX. EXPANSION JOINT SPACING = 150'
3. INSTALL TRANSVERSE SAW JOINTS AT SPACING = SIDEWALK WIDTH.

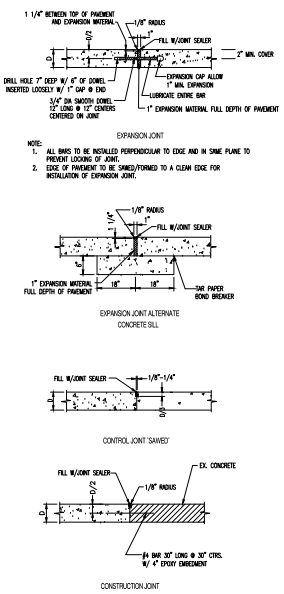
TYPICAL SIDEWALK



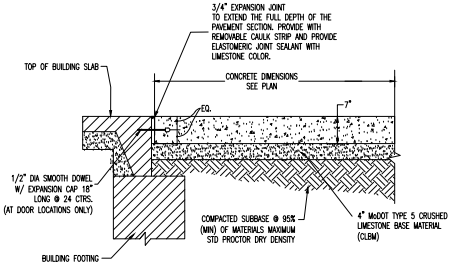
TYPICAL ACCESSIBLE PARKING STALL AREA DETAIL



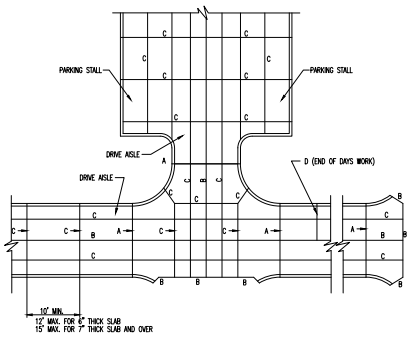
ACCESSIBLE PARKING SIGN



JOINT DETAILS (P.C. CONCRETE PAVEMENT)



CONCRETE PAVEMENT NEXT TO BUILDING



TYPICAL JOINT LOCATION PLAN

NOTE:
1. TRANSVERSE TYPE C JOINTS SHALL BE SAWED AS SOON AS CONCRETE CAN WITHSTAND RAVELING. JOINTS SHALL BE CLEANED AND FILLED WITH BITUMINOUS COMPOUND IMMEDIATELY FOLLOWING SAWING.
2. INSTALL TYPE A EXPANSION JOINTS AT INTERSECTIONS, AND AT STRUCTURES.
3. USE TYPE D JOINT AT END OF DAYS WORK.

JOINT DETAILS (P.C. CONCRETE PAVMENT) (PRIVATE)

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

8/19/2024

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Missouri Certificate of Authority
#2000151304

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

Renovate Interior & Exterior
Readiness Center Building

Mexico Readiness Center
Mexico, Mo

917 West Curtis Street
Mexico, Missoui 65265

PROJECT # T2318-01
SITE # 6295
ASSET # 8136295004
BID DOCUMENTS

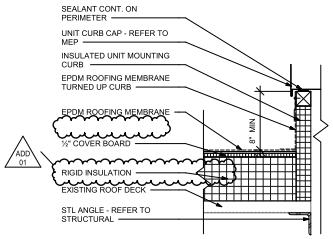
REVISION	DATE
A1	8/19/2024

ISSUE DATE: MAY 31, 2024

CAD DWG FILE: T2318-01_6295_8136295004_C-500.DWG
DRAWN BY: JEE
CHECKED BY: TDC
DESIGNED BY: TDC

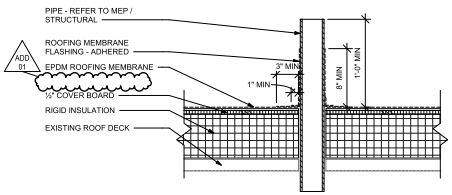
SHEET TITLE:
SITE CONSTRUCTION DETAILS

SHEET NUMBER:
C-500
SHEET OF
ISSUE DATE: MAY 31, 2024



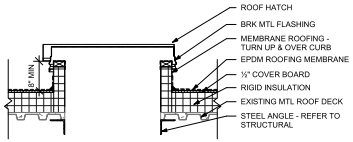
05 TYP. ROOF CURB DETAIL

A203 1 1/2" = 1'-0"



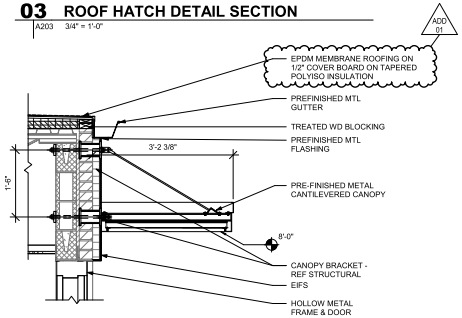
04 TYP. ROOF PENETRATION DETAIL

A203 1 1/2" = 1'-0"



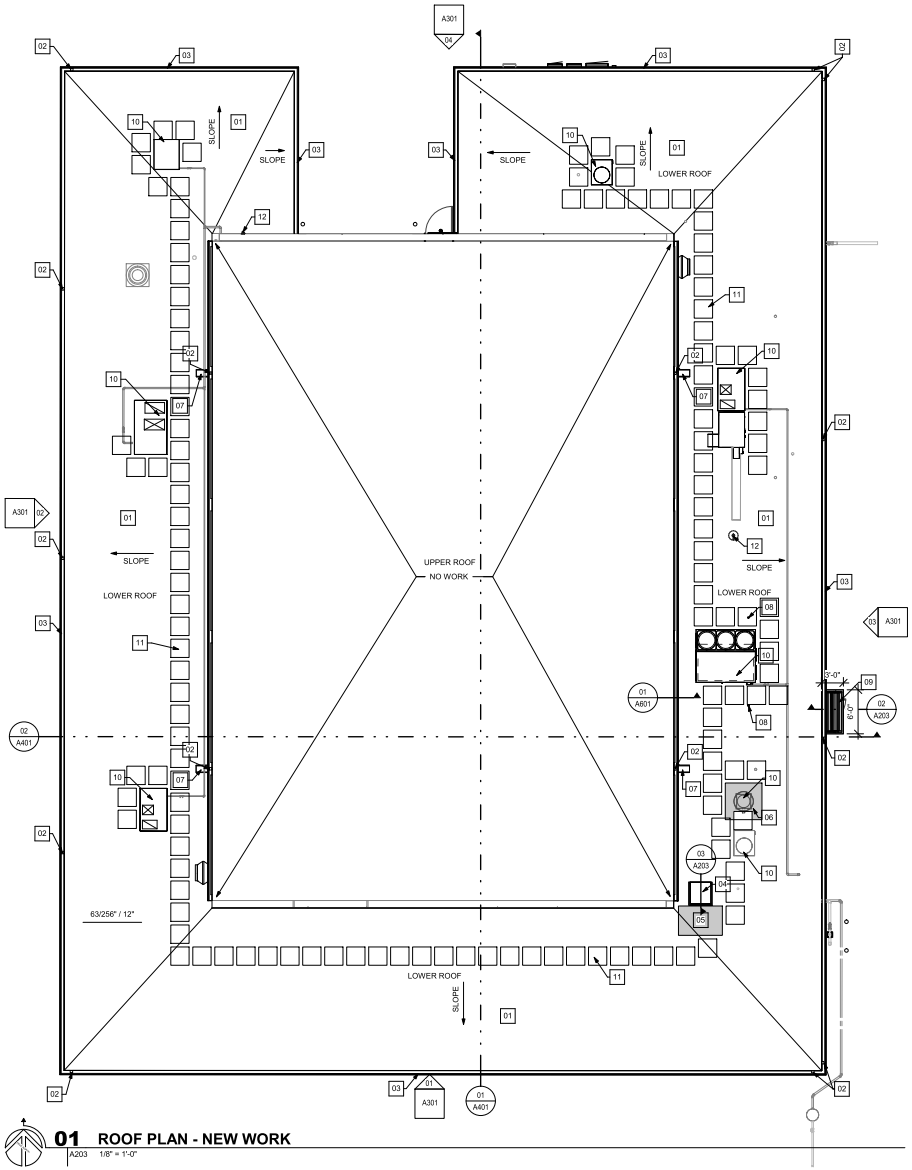
03 ROOF HATCH DETAIL SECTION

A203 3/4" = 1'-0"



02 CANOPY DETAIL SECTION

A203 3/4" = 1'-0"



01 ROOF PLAN - NEW WORK

A203 1/8" = 1'-0"

1 1/2"=1'-0" 0" 3" 6" 1'-0" 2'-0"

3/4"=1'-0" 0" 6" 1'-0" 2'-0" 4'-0"

1/8"=1'-0" 0" 4'-0" 8'-0" 16'-0" 24'-0"

MRC NEW WORK ROOF GENERAL NOTES:

1. FIELD VERIFY ALL DIMENSIONS. IF DIMENSIONS VARY SIGNIFICANTLY NOTIFY THE ARCHITECT
2. ALL DIMENSIONS TO FACE OF STEEL STUD OR EXISTING FINISH UNLESS NOTED OTHERWISE

KEYNOTES - ROOF PLAN

01	EPDM MEMBRANE ROOFING ON 1/2" COVER BOARD ON TAPERED POLYISOINSULATION
02	PREFINISHED METAL DOWNSPOUT
03	PREFINISHED METAL GUTTER
04	ROOF HATCH
05	PROTECTIVE WALK PAD
06	GREASE CONTAINMENT SYSTEM AT KITCHEN HOOD VENT
07	HEAVY DUTY RUBBER SPLASH BLOCK
08	TIE-DOWN ANCHOR WITH 8" EPDM BOOT - REFER TO STRUCTURAL
09	3'X6' PREFABRICATED CANTILEVER CANOPY
10	HVAC UNIT - REFER TO MECHANICAL - COORDINATE CURB AND ROOF INSTALLATION
11	30" x 30" PROTECTIVE WALK PAD
12	FROST PROOF HOSE BIBB - REFER MEP

ADD 01

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

STATE OF MISSOURI JENNIFER MARIE HEDRICK NO. A-7827 REGISTERED ARCHITECT

05/31/2024
SOA Architecture - Jennifer M. Hedrick - Architect
License No. A-7827

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Mexico, Mo

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Mexico, Missouri 65265

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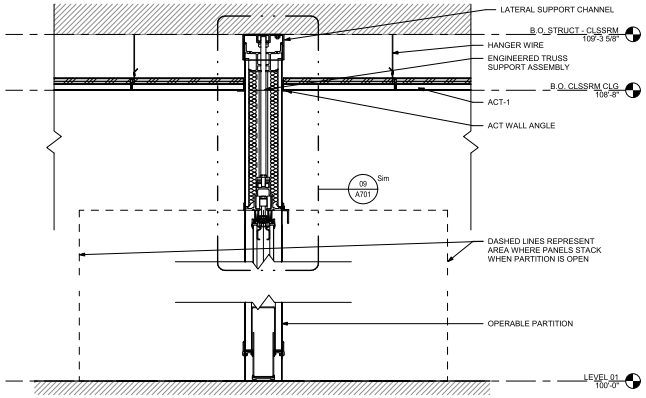
DRAWN BY: AR
CHECKED BY: JH
DESIGNED BY: SOA

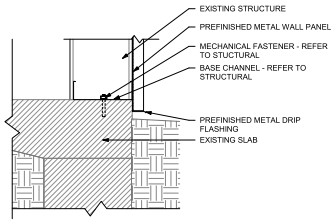
SHEET TITLE:
MRC BUILDING ROOF PLAN

SHEET NUMBER:
A203
SHEET 11 OF 64
ISSUE DATE: MAY 31, 2024



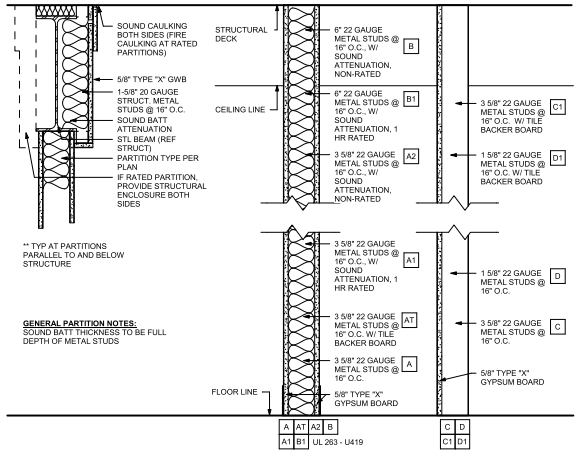
06 DTL SECTION @ OPERABLE WALL PARTITION

A601 1 1/2" = 1'-0"



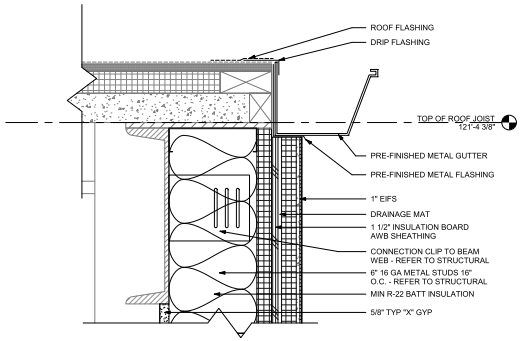
05 TYP. DTL SECTION COLD STORAGE @ BASE CHANNEL (ALT NO. 1)

A601 1 1/2" = 1'-0"



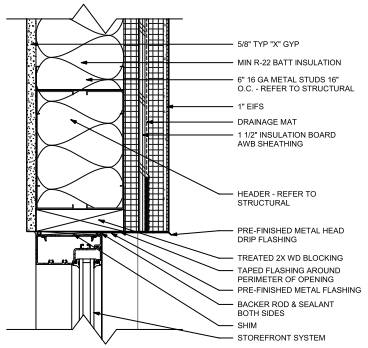
PARTITION TYPES

1 1/2" = 1'-0"



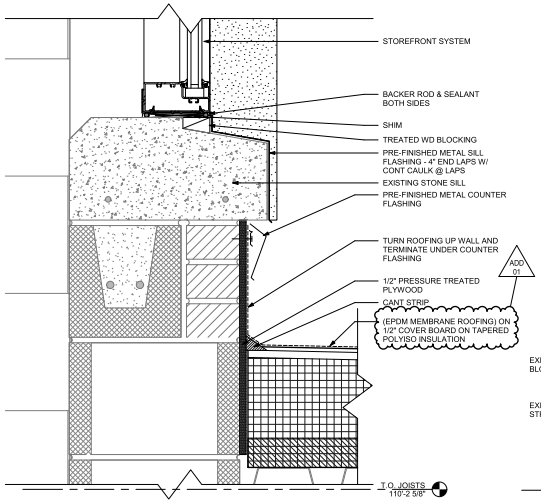
04 TYP. CLERESTORY GUTTER DETAIL

A601 3" = 1'-0"



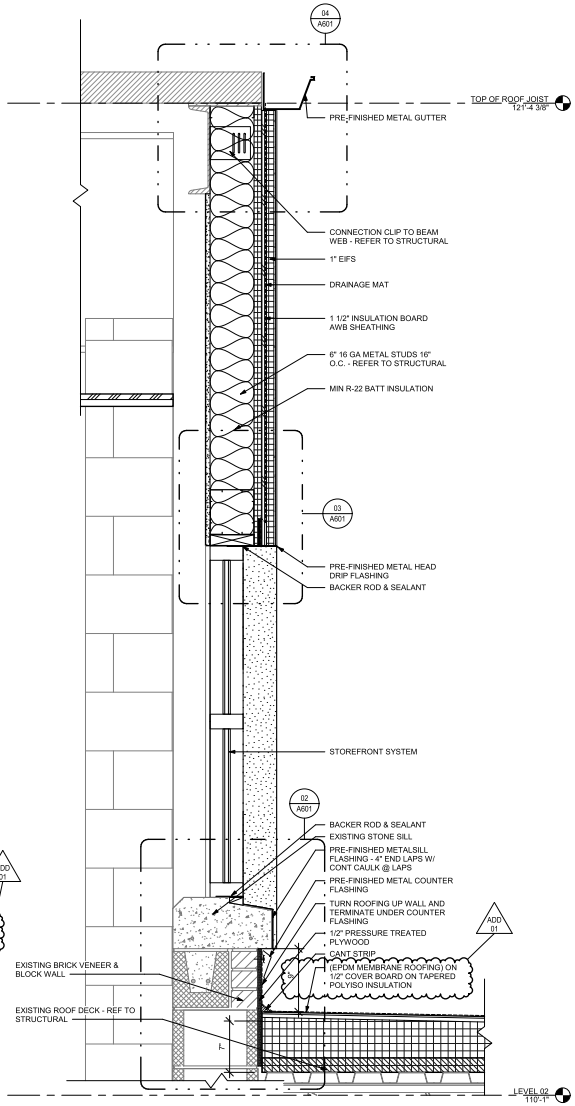
03 TYP. CLERESTORY HEAD DETAIL

A601 3" = 1'-0"



02 TYP. CLERESTORY SILL DETAIL

A601 3" = 1'-0"



01 TYP. CLERESTORY WALL SECTION

A601 1 1/2" = 1'-0"

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

JENNIFER MARIE HEDRICK
REGISTERED ARCHITECT

05/31/2024
SOA Architecture - Jennifer M. Hedrick - Architect
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DRAWN BY: AR
CHECKED BY: JH
DESIGNED BY: SOA

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A601
SHEET 14 OF 64
ISSUE DATE: MAY 31, 2024

ADD 01

INTERIOR FINISH KEY

CODE	TYPE	MANUFACTURER	PATTERN	COLORWAY	SIZE	INSTALLATION METHOD	LOCATIONS
FLOORING:							
LVT-1	LUXURY VINYL TILE	MANNINGTON	SPACIA WOOD	SASH OAK SS5W3032	20 MIL WEAR LAYER, 2.5MM OVERALL THICKNESS, 7.25" x 48"	ALL ARROWS IN SAME DIRECTION, PLANKS TO HAVE END JOINTS OFFSET BY AT LEAST 6" AND STAGGARED TO CREATE A RANDOM APPEARANCE	CLASSROOMS AND OFFICES
RF-1	RESINOUS EPOXY FLOORING (ADD 01)	TNEMEC	DECO TROWEL QUARTZ	TO MATCH TORGINOL: QB-1007-25A DALMATION 10% Q1010-20A BLACK, 40% Q1320-40A SMOKE, 50% Q1010-40A WHITE	ONE SIZE FOR TROWELED QUARTZ	GLASS BEAD TEXTURE/MEDIUM TEXTURE FOR SLIP RESISTANCE, NOTE: RFB-1 BASE	RESTROOMS, LACTATION, KITCHEN, ENTRY
SC-1	SEALED CONCRETE	SIKA CORPORATION	SCOFIELD SelectSealPlus			FLOOR PREP - MECHANICALLY GRIND	DRILL HALL, MECH/ELEC ROOMS, STORAGE ROOMS
RT-1	RUBBER TILE	ZANDUR	TECHNE	BLACK	2X2 TILE SQUARE EDGE, 4MM		FITNESS AREA
WALL BASE:							
RB-1	RESILIENT WALL BASE	TARKETT	TIGHTLOCK RESILIENT - TDCR	21 PLATINUM	4.375" HEIGHT, 1/4" INCH THICK, 75' COILED LENGTHS		
RFB-1	RESINOUS EPOXY COVE BASE	TNEMEC	DECO TROWEL QUARTZ	TO MATCH TORGINOL: QB-1007-25A DALMATION 10% Q1010-20A BLACK, 40% Q1320-40A SMOKE, 50% Q1010-40A WHITE	ONE SIZE FOR TROWELED QUARTZ	INTEGRAL 4" COVE BASE WITH TAPERED TOP	RESTROOMS, LACTATION, KITCHEN, ENTRY
TR-1	METAL TRANSITION	SCHLUTER	SCHIENE	ANODIZED ALUMINUM NICKEL			WALL: RWS-1 TO IPS-3A
CEILINGS:							
ACT-1	ACOUSTICAL CEILING TILE	CERTAINTEED	SYMPHONY M HIGH CAC, 0.8 NRC, 1222-80-1	WHITE	24"X24"X7/8"	TRIM SQUARE EDGE, 15/16" WHITE EZ STAB CLASSIC GRID (NEW CEILING GRID)	CLASSROOMS AND OFFICES
ACT-2	ACOUSTICAL CEILING TILE	CERTAINTEED	SYMPHONY M HIGH CAC, 0.8 NRC, 1220-80-1	WHITE	24"X48"X7/8"	RE-USE EXISTING CEILING GRID	DRILL HALL
IPS-2A	FLAT LATEX ON GYP.	SHERWIN WILLIAMS	BRIGHT CEILING WHITE	SW7007			GYP CEILINGS
IPS-2B	EGGSHELL EPOXY ON GYP.	SHERWIN WILLIAMS	BRIGHT CEILING WHITE	SW7007			RESTROOMS, KITCHEN
IPS-2C	DRYFALL FLAT LATEX ON MTL AND HAYDITE SOFFIT BLOCK	SHERWIN WILLIAMS	BRIGHT CEILING WHITE	SW7007			EXPOSED OPEN TO STRUCTURE CEILINGS
WALLS:							
IPS-1A	EGGSHELL LATEX ON GYP. BD.	SHERWIN WILLIAMS		SW7005 PURE WHITE			FIELD PAINT
IPS-1B	EGGSHELL LATEX ON CMU	SHERWIN WILLIAMS		SW7005 PURE WHITE			FIELD PAINT
IPS-1C	EGGSHELL LATEX ON GYP. BD.	SHERWIN WILLIAMS		SW7067 CITYSCAPE			ACCENT PAINT
IPS-1D	EGGSHELL LATEX ON CMU	SHERWIN WILLIAMS		SW7067 CITYSCAPE			ACCENT PAINT
IPS-1E	EGGSHELL LATEX ON CMU	SHERWIN WILLIAMS		SW6521 NOTABLE HUE			ACCENT PAINT IN DRILL HALL
IPS-3A	EGGSHELL EPOXY ON GYP. BD	SHERWIN WILLIAMS		SW7005 PURE WHITE			FITNESS AREA, KITCHEN, RESTROOMS
IPS-3B	EGGSHELL EPOXY ON CMU	SHERWIN WILLIAMS		SW7005 PURE WHITE			FITNESS AREA, KITCHEN, RESTROOMS
FRP-1	FIBER REINFORCED PANEL	PANOLAM	PEBBLE TEXTURE	WHITE	4' X 8' SHEETS, 0.09" THICKNESS, ALL SEAM TREATMENTS AND MOLDINGS TO BE WHITE	SEE INTERIOR ELEVATIONS FOR HEIGHTS	BEHIND MOP SINK
RWS-1	RESINOUS WALL SYSTEM	TNEMEC	DECO TROWEL QUARTZ	TO MATCH TORGINOL: QB-1007-25A DALMATION 10% Q1010-20A BLACK, 40% Q1320-40A SMOKE, 50% Q1010-40A WHITE	ONE SIZE FOR TROWELED QUARTZ	SMOOTH TEXTURE	SHOWER STALL WALLS
CASEWORK:							
PL-1	PLASTIC LAMINATE	WILSONART	CENIZO CHERRY	8239-38, FINE VELVET FINISH		3MM PVC EDGEBAND TO MATCH LAMINATE	RESTROOM APRONS
SS-1	SOLID SURFACE COUNTERTOPS	CORIAN	SOLID SURFACE	EVEREST			RESTROOMS, PASSTHROUGH COUNTER (BASE BID)
SS-2	SOLID SURFACE INTEGRAL SINK	CORIAN	SOLID SURFACE	GLACIER WHITE	MODEL #810P WITH OVERFLOW		RESTROOM SINKS
MISC FINISHES:							
LOUVER BLINDS-1		LEVOLOR CONTRACT	RIVIERA CLASSIC 1" METAL	WHITE			
CG-1	RIGID VINYL CORNER GUARD	INPRO	TYPE 160 - HIGH IMPACT CORNER GUARD WITH PRE-SLOTTED CONTINUOUS ALUMINUM RETAINER, 90°	FEATHER 0238	2" X 2" X 48" TALL	INSTALL CORNER GUARDS ABOVE RUBBER BASE	
HDPE-1	HIGH-DENSITY POLYETHYLENE PARTITIONS	SCRANTON PRODUCTS	HINY HIDERS PARTITIONS, MINIMUM SIGHT DESIGN	GLACIER GREY, ORANGE PEEL FINISH		FLOOR MOUNT/OVERHEAD BRACED AND WALL MOUNTED URINAL SCREENS	RESTROOMS
FPPF-1	FOLDING PANEL PARTITION	HUFCOR	VINYL-COATED FABRIC PATTERN TO BE SELECTED FROM MANUFACTURER'S FULL RANGE	VINYL-COATED FABRIC COLOR TO BE SEECTED FROM MANUFACTURER'S FULL RANGE			
IPS-5A	SEMI GLOSS ENAMEL ON METAL	SHERWIN WILLIAMS		GRAY - CUSTOM SHERWIN WILLIAMS COLOR MATCH (OWNER/ARCHITECT TO PROVIDE COLOR DURING CONSTRUCTION ADMINISTRATION)			DOOR FRAMES AND HOLLOW METAL DOORS
IPS-5B	EGGSHELL ENAMEL ON METAL	SHERWIN WILLIAMS		SW7005 PURE WHITE			LINTELS ABOVE OPENINGS

** ALL TRANSITIONS TO BE VERIFIED BY FLOORING INSTALLER AS MOST APPROPRIATE SELECTION

ROOM FINISH SCHEDULE

ROOM NO	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	CEILING MATL	NOTES
COLD STORAGE BUILDING - ALT. NO 2									
CS100	STORAGE	EXIST	-	-	-	-	-	FIB	
MEXICO READINESS CENTER									
100	LOBBY	RF-1	RFB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1B	ACT-1	
101	DRILL HALL	SC-1	NONE	IPS-1B, IPS-1E	IPS-1B, IPS-1E	IPS-1B, IPS-1E	IPS-1B, IPS-1E	ACT-1	
102	OFFICE	LVT-1	RB-1	IPS-1B	IPS-1B	IPS-1D	IPS-1B	ACT-1	
103	OFFICE	LVT-1	RB-1	IPS-1B	IPS-1B	IPS-1D	IPS-1B	ACT-1	
104	OFFICE	LVT-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1D	ACT-1	
105	PHYSICAL FITNESS AREA	RT-1	RB-1	IPS-1A	IPS-1B	IPS-1B	IPS-1B	O.T.S. - IPS-2C	
106	CLASSROOM 01	LVT-1	RB-1	OPERABLE PARTITION, IPS-1A	IPS-1A	IPS-1B	IPS-1B	ACT-1	1
107	CLASSROOM 02	LVT-1	RB-1	IPS-1A	OPERABLE PARTITION, IPS-1A	IPS-1B	IPS-1B	ACT-1	1
108	SUPPLY OFFICE	LVT-1	RB-1	IPS-1B	IPS-1A	IPS-1B	IPS-1B	EXIST - IPS-2C	1
110	ORDNANCE	SC-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1B	EXIST - IPS-2C	
111	UNIT STORAGE	SC-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1B	O.T.S. - IPS-2C	
112	MECH/ELEC	SC-1	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
113	STORAGE/LOCKER AREA	SC-1	RB-1	EXISTING GLAZED BLOCK	EXISTING GLAZED BLOCK, IPS-1A	EXISTING GLAZED BLOCK, IPS-1A	EXISTING GLAZED BLOCK	O.T.S. - IPS-2C	
114	MENS	RF-1	RFB-1	IPS-3A	IPS-3A	IPS-3A	IPS-3A	IPS-2B	
115	MENS SHOWER ROOM	RF-1	RFB-1	IPS-3A	RWS-1	RWS-1	RWS-1, IPS-3A	IPS-2B	
116	MECH	SC-1	RB-1	IPS-1A	IPS-1A	IPS-1A	IPS-1A	O.T.S.	
117	WOMENS SHOWER ROOM	RF-1	RFB-1	RWS-1	IPS-3A	RWS-1, IPS-3A	RWS-1	IPS-2B	
118	WOMENS	RF-1	RFB-1	IPS-3A	IPS-3A	IPS-3A, RWS-1	IPS-3B	IPS-2B	
119	LACTATION	RF-1	RFB-1	IPS-3A	IPS-3A	IPS-3A	IPS-3A	IPS-2B	
120	DRY STORAGE	RF-1	RFB-1	IPS-3A	IPS-3A	IPS-3B	IPS-3A	IPS-2B	
121A	SCULLERY	RF-1	RFB-1	IPS-3A	IPS-3A	IPS-3A	IPS-3B	IPS-2B	
121B	FOOD PREP	RF-1	RFB-1	IPS-3A	IPS-3A	IPS-3A	IPS-3B	IPS-2B	
122	MECH/ELEC	SC-1	RB-1	IPS-1A	IPS-1B	IPS-1B	IPS-1B	O.T.S.	
123	CONFERENCE	LVT-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1A	ACT-1	1
124	OFFICE	LVT-1	RB-1	IPS-1A	IPS-1B	IPS-1A	IPS-1A	ACT-1	1
125	OFFICE	LVT-1	RB-1	IPS-1A	IPS-1A	IPS-1A	IPS-1A	ACT-1	1
126	OFFICE	LVT-1	RB-1	IPS-1B	IPS-1B, IPS-1C	IPS-1A, IPS-1C	IPS-1B	ACT-1	1
OLD FMS BUILDING - ALT NO. 3									
FMS100	ENTRY	SC-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1B	EXIST	
FMS101	OFFICE	SC-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1B	ACT-1	
FMS102	EQUIP	SC-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1B	EXIST	
FMS103	RESTROOM	SC-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1B	EXIST	
FMS104	STORAGE	SC-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1B	EXIST	
FMS105	STORAGE	SC-1	RB-1	IPS-1B	IPS-1B	IPS-1B	IPS-1B	EXIST	
FMS106	WORK BAY	EXIST	-	IPS-1B	IPS-1B	IPS-1B	IPS-1B	EXIST	
FMS107	WORK BAY	EXIST	-	IPS-1B	IPS-1B	IPS-1B	IPS-1B	EXIST	

FINISH SCHEDULE NOTES:

1. PROVIDE GYPSUM CEMENT UNDERLAYMENT BEFORE NEW FLOOR INSTALLATION

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

05/31/2024
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Mexico Readiness Center
Mexico, Mo

917 West Curtis Street
Mexico, Missouri 65265

PROJECT # T2318-01
SITE # 6295
ASSET # 8136295004
BID DOCUMENTS

REVISION	DATE
ADD 01	08/19/2024

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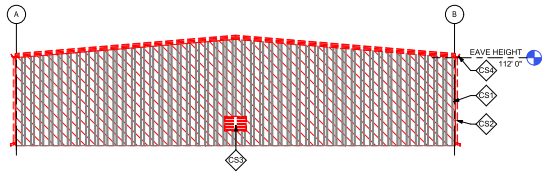
DRAWN BY: AR
CHECKED BY: JH
DESIGNED BY: SOA

SHEET TITLE:
ROOM FINISH SCHEDULE & INTERIOR FINISH KEY

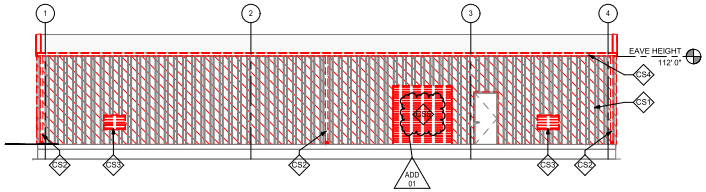
SHEET NUMBER:
A703

ISSUE DATE: MAY 31, 2024



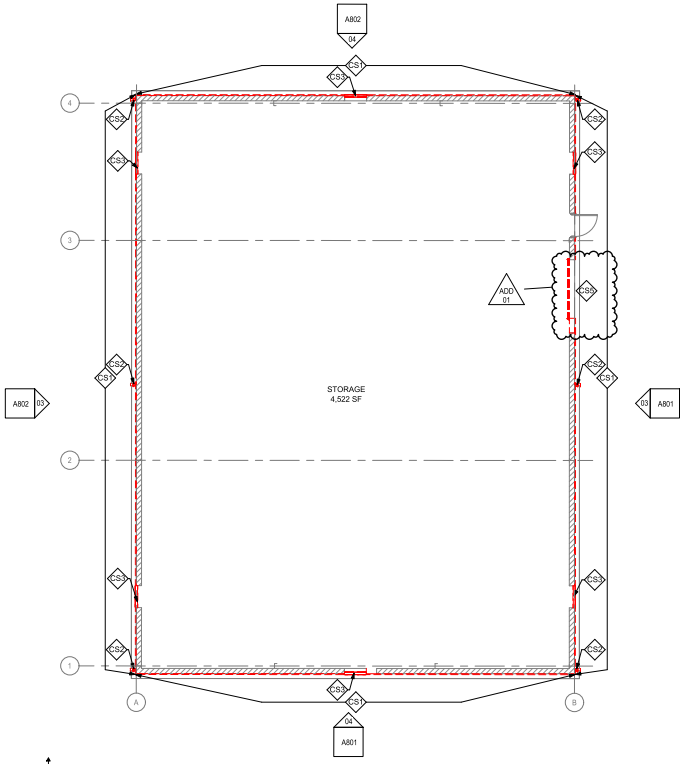
04 COLD STORAGE DEMOLITION ELEVATION - SOUTH

A801 1/8" = 1'-0"



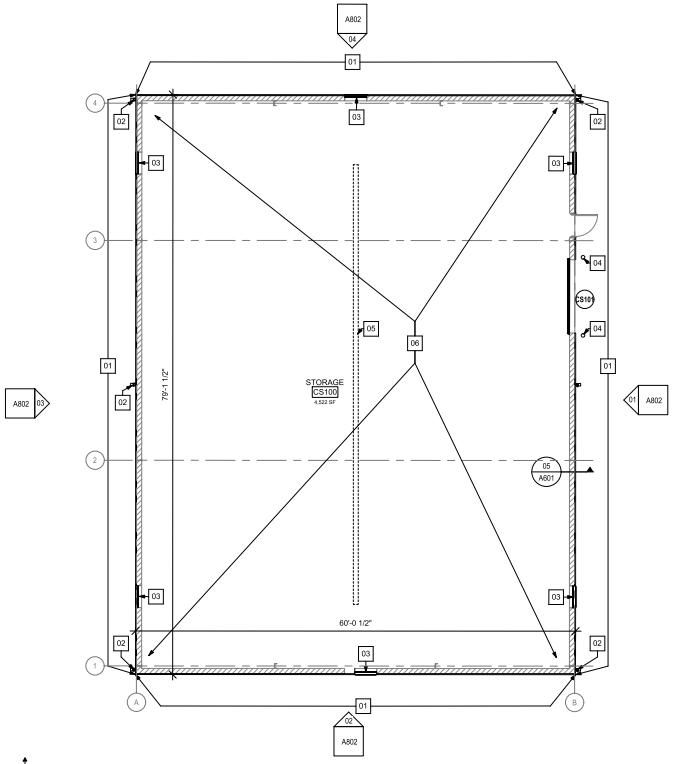
03 COLD STORAGE - DEMOLITION ELEVATION - EAST

A801 1/8" = 1'-0"



02 COLD STORAGE - DEMOLITION PLAN

A801 1/8" = 1'-0"



01 COLD STORAGE - NEW WORK PLAN

A801 1/8" = 1'-0"

ALTERNATE NO. 2:
ALL WORK ASSOCIATED WITH COLD STORAGE BUILDING

1/8"=1'-0" 0" 4'-0" 8'-0" 16'-0" 24'-0"

GENERAL NOTES - DEMOLITION

1. REMOVE WALLS & OTHER COMPONENTS INDICATED BY THE FOLLOWING LINETYPE (UNLESS NOTED OTHERWISE):
2. PROTECT EXISTING SURFACES & COMPONENTS SCHEDULED TO REMAIN
3. REFER TO STRUCTURAL & MEP DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
4. BEFORE DEMOLITION PHASE, COORDINATE WITH OWNER REPRESENTATIVE

KEYNOTES - COLD STORAGE DEMOLITION PLAN

CS1	PREFINISHED METAL WALL PANELS & BASE ANGEL - REMOVE
CS2	PREFINISHED METAL DOWNSPOUT - REMOVE
CS3	PREFINISHED METAL LOUVER & SCREEN - REMOVE & SALVAGE FOR REINSTALLATION
CS4	PREFINISHED METAL GUTTER - REMOVE & SALVAGE FOR REINSTALLATION
CS5	OVERHEAD DOOR - REMOVE

ADD 01

COLD STORAGE NEW WORK GENERAL NOTES:

1. FIELD VERIFY ALL DIMENSIONS. IF DIMENSIONS VARY SIGNIFICANTLY NOTIFY THE ARCHITECT
2. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MODIFICATIONS TO PERIMETER ANGLE AND PURLINS
3. GRAY WALLS & DOORS ARE EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION

KEYNOTES - COLD STORAGE PLAN

01	PREFINISHED METAL WALL PANELS
02	PREFINISHED METAL DOWNSPOUT
03	PREFINISHED METAL LOUVER & SCREEN
04	CONCRETE FILLED STEEL BOLLARD - PAINT EPS-5 - REFER TO STRUCTURAL DRAWINGS FOR DETAIL
05	ROOF RIDGE VENT - CLEAN & RETURN TO WORKING ORDER. EXISTING METAL ROOF IS TO REMAIN
06	2.5" VINYL BACKED FIBERGLASS ROOF INSULATION WITH CONTINUOUS VAPOR RETARDER - CONTINUOUS AT UNDERSIDE OF EXISTING METAL ROOF

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

STATE OF MISSOURI JENNIFER MARIE HEDRICK REGISTERED ARCHITECT

05/31/2024
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ADD 01	08/19/2024

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CHECKED BY: JH
DESIGNED BY: SOA

SHEET TITLE:
ALT. NO. 2 - COLD STORAGE BUILDING DEMOLITION & NEW WORK PLANS

SHEET NUMBER:
A801
SHEET 4 OF 64
ISSUE DATE: MAY 31, 2024

ALTERNATE NO. 3:
ALL WORK ASSOCIATED WITH OLD FMS BUILDING

1/8"=1'-0" 0" 4'-0" 8'-0" 16'-0" 24'-0"

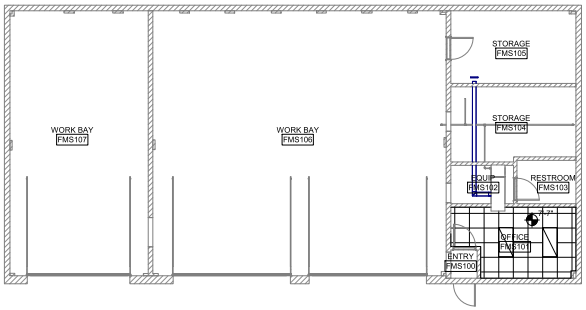
GENERAL NOTES - DEMOLITION

1. REMOVE WALLS & OTHER COMPONENTS INDICATED BY THE FOLLOWING LINETYPE (UNLESS NOTED OTHERWISE):
2. PROTECT EXISTING SURFACES & COMPONENTS SCHEDULED TO REMAIN
3. REFER TO STRUCTURAL & MEP DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION
4. BEFORE DEMOLITION PHASE, COORDINATE WITH OWNER REPRESENTATIVE

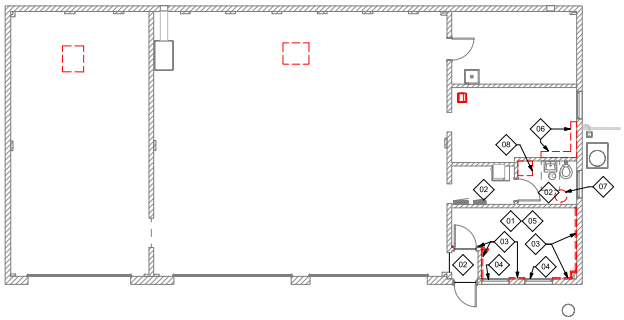
KEYNOTES - OLD FMS DEMOLITION PLAN

ADD 01

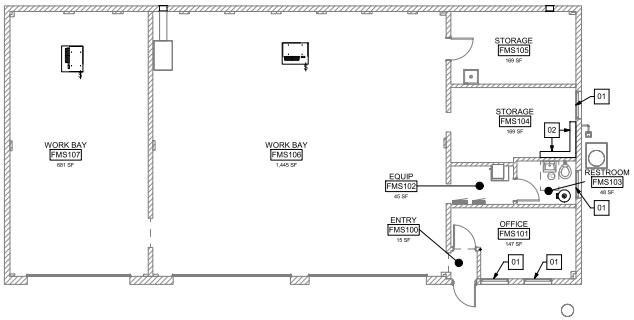
01	CARPET AND BASE - REMOVE
02	VCT AND BASE - REMOVE
03	WOOD WALL PANELING, FURRING STRIPS & ADHESIVE - REMOVE AND PROPERLY PREPARE WALL FOR NEW FINISH
04	WINDOW SHADES - REMOVE
05	ACOUSTIC CEILING TILE - REMOVE
06	REMOVE & SALVAGE BUILT-IN ELEMENT
07	WATER HEATER - REFER TO PLUMBING
08	WOOD PLATFORM - REMOVE



03 OLD FMS - REFLECTED CEILING PLAN
A803 1/8" = 1'-0"



02 OLD FMS - DEMOLITION PLAN
A803 1/8" = 1'-0"



01 OLD FMS - NEW WORK PLAN
A803 1/8" = 1'-0"

GENERAL NOTES - CEILING

1. FOR SPECIFICATION OF LIGHT FIXTURES AND MECHANICAL SYSTEM COMPONENTS, REFER TO MEP
2. CEILING LEGEND IS SYMBOLIC TO ACTUAL FIXTURE - REFER TO MEP FIXTURE SCHEDULES
3. ALL CEILING HEIGHTS ARE 9'-0" UNLESS NOTED OTHERWISE.
4. FOR LOCATIONS OF LIGHT FIXTURES - REFER MEP
5. SHIFT CEILING TILE TO AVOID SLIVERS AT WALLS - IF THIS REQUIRES A SIGNIFICANT SHIFT INFORM ARCHITECT AND MEP FOR DIRECTION

LEGEND - REFLECTED CEILING

- 2' X 2' LAY-IN ACOUSTICAL CEILING PANEL & GRID SYSTEM
- GWB CEILING
- 2 X 2 LIGHT FIXTURE - REF MEP
- 2 X 4 LIGHT FIXTURE - REF MEP
- CAN LIGHT FIXTURE - REF MEP
- PENDANT LIGHT FIXTURE - REF MEP
- WALL MOUNTED FIXTURE - REF MEP
- SUPPLY AIR DIFFUSER - REF MEP
- RETURN AIR GRILLE
- ABOVE CEILING SOUND MASKING SYSTEM EXTENTS
- SPRINKLER HEAD - REF MEP
- S SPEAKER ROUGH-IN LOCATION - REF MEP
- CEILING ELEVATION LEVEL @ 9'-0"
- EXIT LIGHT - REF MEP
- ACCESS PANEL

NEW WORK OLD FSM GENERAL NOTES:

1. FIELD VERIFY ALL DIMENSIONS. IF DIMENSIONS VARY SIGNIFICANTLY NOTIFY THE ARCHITECT
2. ALL DIMENSIONS TO CENTERLINE OF COLUMN, FACE OF STEEL STUD, OR MASONRY UNLESS NOTED OHERWISE
3. GRAY WALLS & DOORS ARE EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
4. DASHED GRAY COMPONENTS ARE NOT IN CONTRACT

KEYNOTES - OLD FMS PLAN

01	HORIZONTAL LOUVER BLIND INSIDE MOUNT - SINGLE BLINDS
02	REINSTALL BUILT-IN ELEMENT, CUT AN ACCESS PANEL FOR THE NEW VALVE - REFER MEP

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

STATE OF MISSOURI JENNIFER MARIE HEDRICK REGISTERED ARCHITECT

05/31/2024
SOA Architecture - Jennifer M. Hedrick - Architect
License No. A-7827

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Mexico, Mo

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Mexico, Missouri 65265

PROJECT # T2318-01
SITE # 6295
ASSET # 8136295004
BID DOCUMENTS

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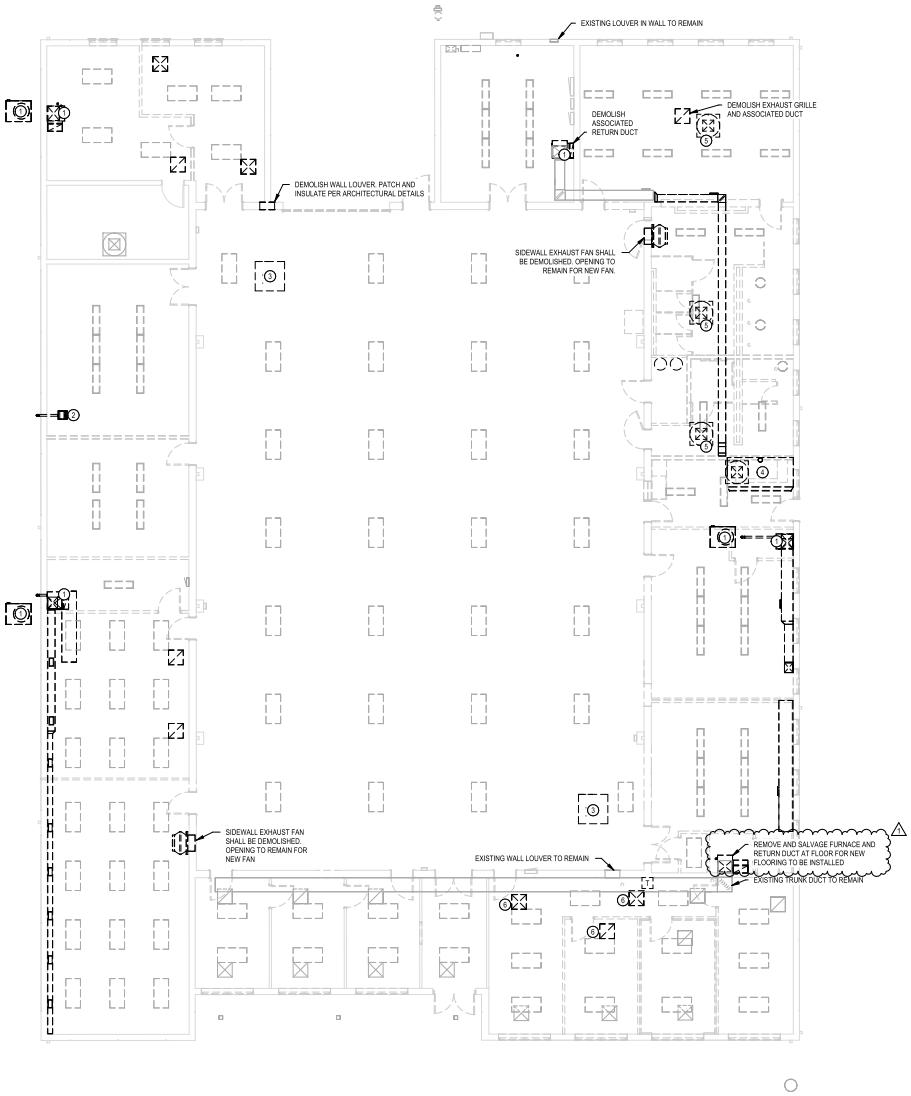
DRAWN BY: AR
CHECKED BY: JH
DESIGNED BY: SOA

SHEET TITLE:
ALT. NO. 3 - OLD FMS - DEMOLITION, NEW WORK & RELFECTED CEILING PLANS

SHEET NUMBER:
A803

SHEET 16 OF 64
ISSUE DATE: MAY 31, 2024



1 HVAC PLAN MAIN BUILDING DEMO

MD101 1/8" = 1'-0"

1/8"=1'-0" 0" 4'-0" 8'-0" 16'-0" 24'-0"

GENERAL PLAN NOTES:

1. SEE SHEETS M501 AND M601-M603 SERIES SHEETS FOR ADDITIONAL DETAILS AND SCHEDULES
2. ALL REFRIGERANT LINESETS SHALL BE ROUTED ABOVE CEILINGS AND WITHIN WALLS TO BE CONCEALED.
3. ALL EXISTING MECHANICAL EQUIPMENT AND DUCTWORK ROUTING, SIZE AND LOCATIONS SHOWN ARE AN APPROXIMATION BASED ON FIELD OBSERVATION AND EXISTING BUILDING PLANS. CONTRACTOR SHALL VERIFY EXACT ROUTING AND LOCATION OF DUCTWORK/EQUIPMENT TO TIE INTO PRIOR TO ORDERING MATERIALS.
4. REFRIGERANT LINESET ROUTING AND LOCAITON SHOWN IS APPROXIMATE AND INTENDED TO ESTABLISH APPROXIMATE ROUTING. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING AND CHANGES IN DIRECTION. REFRIGERANT PIPE SIZING SHALL BE PER MANUFACTURER INSTALLATION INSTRUCTIONS.
5. BALANCE ALL OA / FA DAMPERS TO FRESH AIR CFM INDICATED IN EQUIPMENT SCHEDULES ON SHEET M601 UNLESS NOTED OTHERWISE.
6. ALL EXISTING AIR DEVICES SHALL BE REBALANCED TO CFM INDICATED.
7. FOR ALL HVAC EQUIPMENT TAGGED AS EXISTING TO REMAIN CONTRACTOR SHALL PERFORM MANUFACTURER RECOMMENDED ANNUAL MAINTENANCE AND ENSURE UNIT IS IN GOOD WORKING ORDER. PROVIDE LIST OF DEFICIENCIES TO OWNER PRIOR TO MAKING REPAIRS.
8. ALL EQUIPMENT, DUCTWORK, AIR DEVICES AND ASSOCIATED COMPONENTS SHOWN GRAY / FADED SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

MECHANICAL KEYNOTES

1	DEMOLISH FURNACE, ASSOCIATED CONDENSING UNIT, DUCTWORK COMBUSTION/FLUE PIPING AND LINESETS. PATCH AND INSULATE ROOF AND EXTERIOR WALLS PER ARCHITECTURAL PLAN DETAILS.
2	DEMOLISH UNIT HEATER, ASSOCIATED COMBUSTION/FLUE PIPING. PATCH AND INSULATE WALL PER ARCHITECTURAL PLAN DETAILS.
3	DISCONNECT AND REMOVE UNIT HEATER. PREPARE SUPPORTS AND UTILITIES FOR NEW HEATER INSTALLATION.
4	DEMOLISH EXISTING KITCHEN HOOD, DUCTWORK, AND ASSOCIATED EXHAUST FAN.
5	DEMOLISH EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. PATCH AND INSULATE ROOF PER ARCHITECTURAL DETAILS.
6	REMOVE AND SALVAGE EXISTING AIR DEVICE TO BE RELOCATED, SEE SHEET M101 FOR DETAILS.

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

Shane Floyd, P.E. AUGUST 19, 2024
PE-2010017814
MO Certificate of Authority #000239

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CHECKED BY: SLF
DESIGNED BY: NCC

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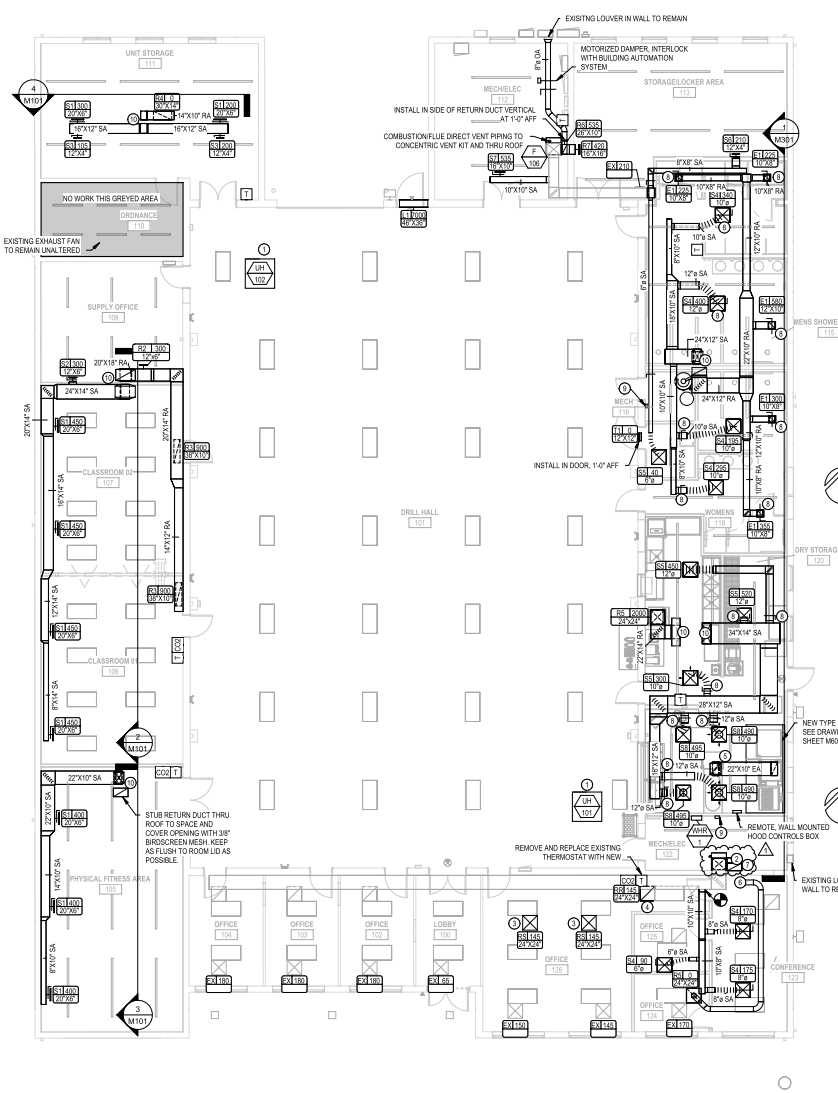
MAIN BUILDING MECHANICAL DEMO PLAN

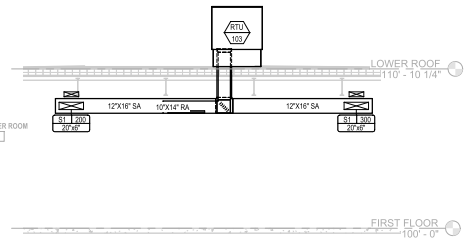
SHEET NUMBER:
MD101

ISSUE DATE: MAY 31, 2024



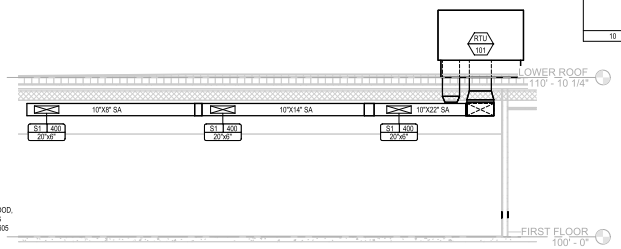
1 HVAC PLAN MAIN BUILDING

M101 1/8" = 1'-0"



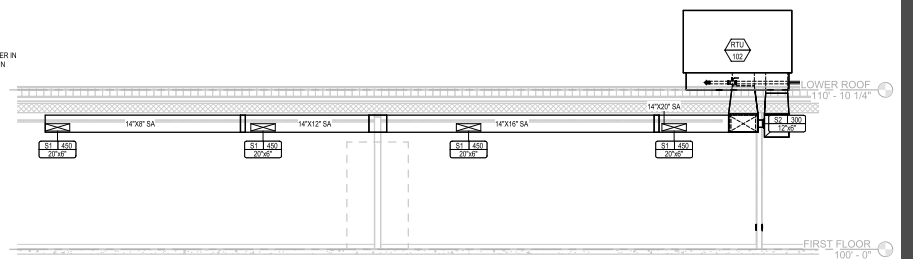
4 UNIT STORAGE HVAC SECTION

M101 1/4" = 1'-0"



3 FITNESS AREA HVAC SECTION

M101 1/4" = 1'-0"



2 CLASSROOM HVAC SECTION

M101 1/4" = 1'-0"

GENERAL PLAN NOTES:

1. SEE SHEETS M501 AND M601-M603 SERIES SHEETS FOR ADDITIONAL DETAILS AND SCHEDULES
2. ALL REFRIGERANT LINESETS SHALL BE ROUTED ABOVE CEILINGS AND WITHIN WALLS TO BE CONCEALED.
3. ALL EXISTING MECHANICAL EQUIPMENT AND DUCTWORK ROUTING, SIZE AND LOCATIONS SHOWN ARE AN APPROXIMATION BASED ON FIELD OBSERVATION AND EXISTING BUILDING PLANS. CONTRACTOR SHALL VERIFY EXACT ROUTING AND LOCATION OF DUCTWORK/EQUIPMENT TO TIE INTO PRIOR TO ORDERING MATERIALS.
4. REFRIGERANT LINESET ROUTING AND LOCAITON SHOWN IS APPROXIMATE AND INTENDED TO ESTABLISH APPROXIMATE ROUTING. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING AND CHANGES IN DIRECTION. REFRIGERANT PIPE SIZING SHALL BE PER MANUFACTURER INSTALLATION INSTRUCTIONS.
5. BALANCE ALL OA / FA DAMPERS TO FRESH AIR CFM INDICATED IN EQUIPMENT SCHEDULES ON SHEET M601 UNLESS NOTED OTHERWISE.
6. ALL EXISTING AIR DEVICES SHALL BE REBALANCED TO CFM INDICATED.
7. FOR ALL HVAC EQUIPMENT TAGGED AS EXISTING TO REMAIN CONTRACTOR SHALL PERFORM MANUFACTURER RECOMMENDED ANNUAL MAINTENANCE AND ENSURE UNIT IS IN GOOD WORKING ORDER. PROVIDE LIST OF DEFICIENCIES TO OWNER PRIOR TO MAKING REPAIRS.
8. ALL EQUIPMENT, DUCTWORK, AIR DEVICES AND ASSOCIATED COMPONENTS SHOWN GRAY / FADED SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

MECHANICAL KEYNOTES

1	1	INSTALL NEW UNIT HEATER AT LOCATION OF DEMOLISHED HEATER.
2	2	REINSTALL SALVAGED PURIANCE AND DUCTWORK IN SAME LOCATION AFTER NEW FLOORING IS INSTALLED. RECONNECT INTO EXISTING SUPPLY AND RETURN DUCT.
	3	RELOCATE EXISTING SUPPLY DIFFUSER AS SHOWN. EXTEND MIN. 6" DUCTWORK FROM EXISTING LOCATION AS REQUIRED. IF EXISTING IS FOUND TO BE LESS THAN 8", REPLACE WITH NEW 8" AND MANUAL DAMPER FROM MAIN SUPPLY TRUNK.
	4	RELOCATE EXISTING RETURN GRILLE AS SHOWN.
	5	GREASE EXHAUST DUCT UP TO GREASE EXHAUST FAN ON ROOF. SEE DETAIL SHEET M502.
	6	TIE INTO EXISTING MAIN TRUNK RETURN DUCT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF DUCT TO TIE INTO.
	7	INSTALL NEW MOTORIZED DAMPER AND MANUAL DAMPER IN EXISTING 12X12 OUTSIDE AIR DUCT. BALANCE PER SPLIT SYSTEM EQUIPMENT SCHEDULE.
	8	ELECTRO-BALANCE #EB-250 ROUND DAMPER SYSTEM FOR REMOTE DAMPERS. SINGLE BLADE BALANCING DAMPER EQUAL TO MAT #EB-250 WITH UNIVERSAL DAMPER DRIVE #EB-UDD FACTORY MOUNTED TO DAMPER. DAMPER DRIVE SHALL BE WIRED TO CONNECTOR WALL PLATE LOCATED IN STORAGE ROOM (SEE KEY NOTE 9). SYSTEM SHALL BE ORDERED AS A COMPLETE DAMPER SYSTEM WITH ALL NECESSARY COMPONENTS FOR APERATION. SEE DETAIL SHEET M501.
	9	CONNECTOR WALL PLATE EQUAL TO MAT #EB-SP8. LABEL WALL PLATE "DAMPER CONTROL" AND PROVIDE DIAGRAM FOR WHICH ROOM/DAMPER IS CONTROLED BY EACH CONNECTOR. CONNECTOR WALL PLATE IS PART OF THE ELECTRO-BALANCE #EB-250 ROUND DAMPER SYSTEM. SYSTEM SHALL BE ORDERED AS A COMPLETE DAMPER SYSTEM WITH ALL NECESSARY COMPONENTS FOR OPERATION.
	10	SA/RA DROP FROM RTU ON ROOF.

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

SHANE L. FLOYD
NUMBER PE-2010017814
PROFESSIONAL ENGINEER
STATE OF MISSOURI

Shane Floyd, P.E. AUGUST 19, 2024
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Renovate Interior & Exterior Readiness Center Building

Mexico Readiness Center
Mexico, Mo

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Mexico, Missoui 65265

PROJECT # T2318-01
SITE # 6295
ASSET # 8136295004
BID DOCUMENTS

REVISION	DATE
ADDENDUM #1	08/19/2024

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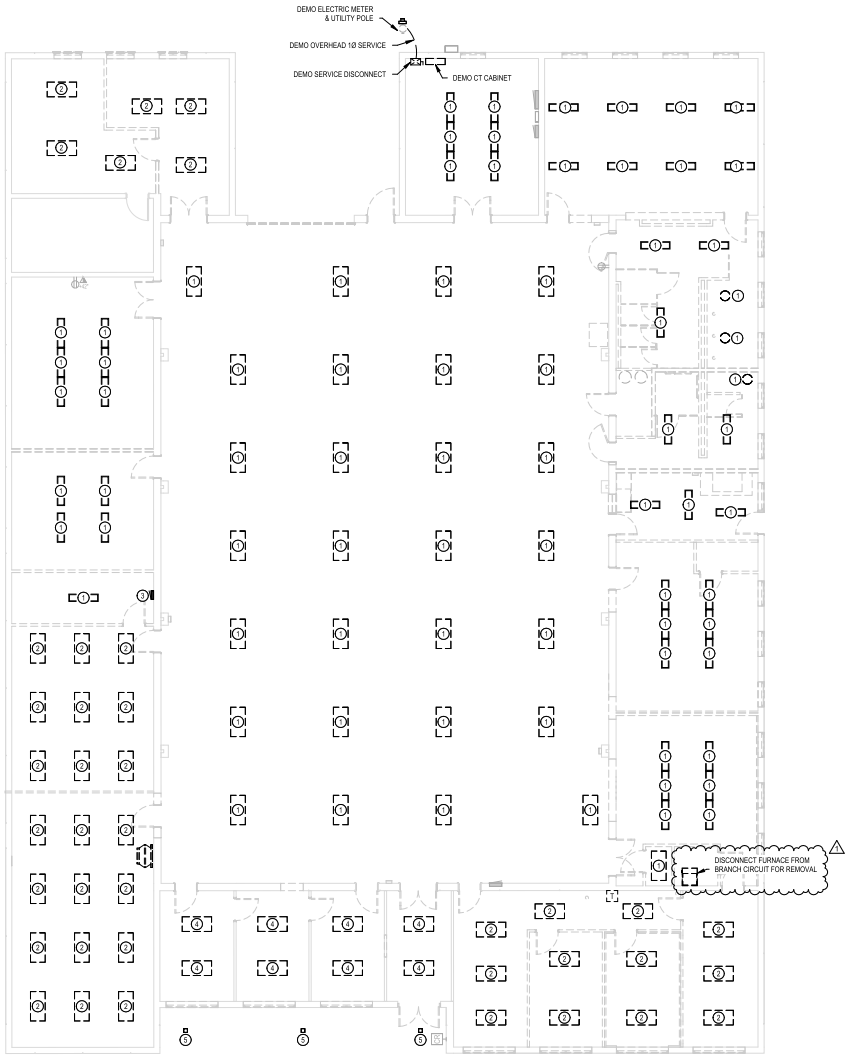
CAD DWG FILE: T2318-01\6295\8136295004\M101.DWG
DRAWN BY: NCC
CHECKED BY: SLF
DESIGNED BY: NCC

SHEET TITLE:
MAIN BUILDING MECHANICAL PLAN

SHEET NUMBER:
M101

ISSUE DATE: MAY 31, 2024



1/8"=1'-0" 0" 4'-0" 8'-0" 16'-0" 24'-0"

GENERAL PLAN NOTES

1. REFER TO ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES ON SHEET E000.
2. FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
3. ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
4. ALL PIPING CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
5. ALL ELECTRICAL GEAR, FIXUTRES, DEVICES, AND CIRCUITING LABELED EX. OR EXISTING OR SHOWN GRAY / FADED LINES SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
6. REFER TO KITCHEN EQUIPMENT CONSULTANT PLANS FOR FINAL ROUGH-IN HEIGHTS. KEC PLAN HEIGHTS OR GOVERN OVER ELECTRICAL POWER PLAN SHEET HEIGHTS IN FOOD SERVICE / KITCHEN AREA.

ELECTRICAL KEYNOTES

1	DEMOLISH LIGHT FIXTURE. DEMOLISH ASSOCIATED CONDUCTORS AND RACEWAYS, EXCEPT WHERE BEING REUSED FOR NEW FIXTURES.
2	REMOVE AND SALVAGE LIGHT FIXTURE FOR REINSTALLATION. DEMOLISH ASSOCIATED CONDUCTORS AND RACEWAYS, EXCEPT WHERE BEING REUSED FOR NEW FIXTURES.
3	DEMOLISH SURFACE MOUNTED ELECTRIC PANEL, FEEDER, AND ASSOCIATED CONDUIT AND CONDUCTORS.
4	REMOVE AND SALVAGE LIGHT FIXTURE FOR REINSTALLATION.
5	DEMO SOFFIT LIGHT FIGURE.

1 ELECTRICAL PLAN MAIN BUILDING DEMO
ED101 1/8" = 1'-0"

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

STATE OF MISSOURI SHANE L. FLOYD NUMBER PE-2010017814 PROFESSIONAL ENGINEER

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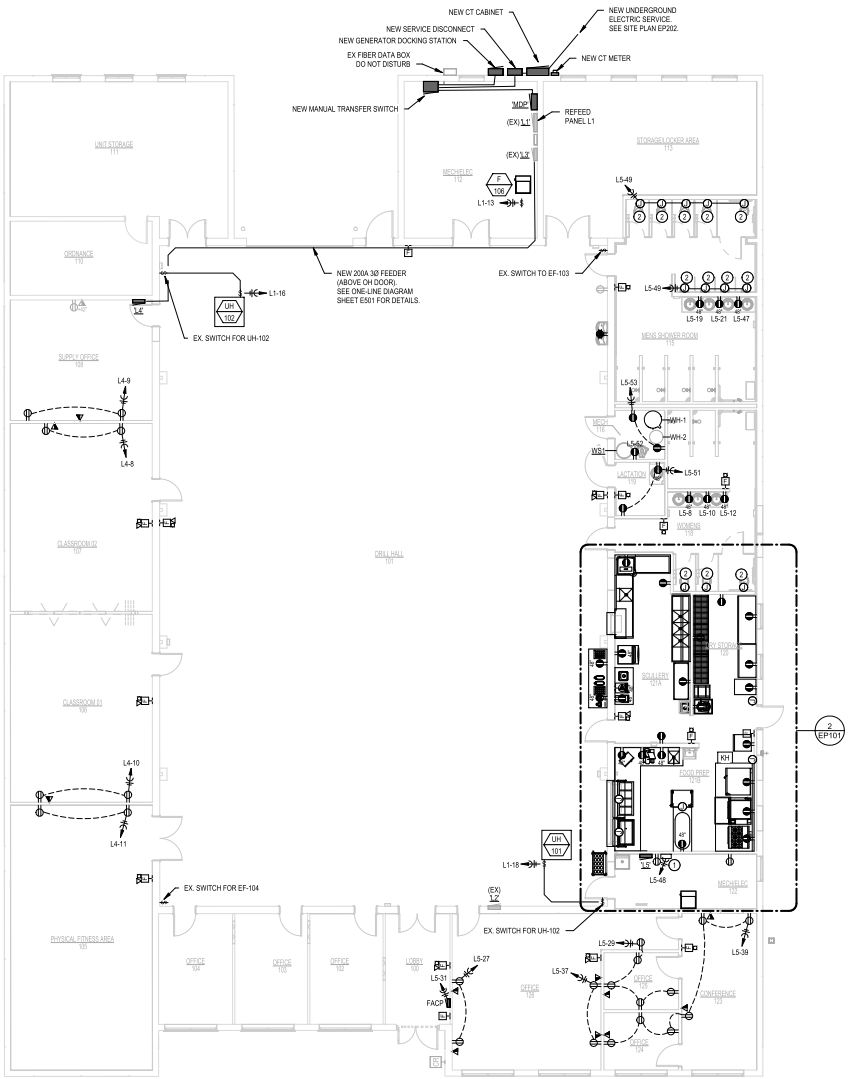
ELECTRICAL DEMO PLAN

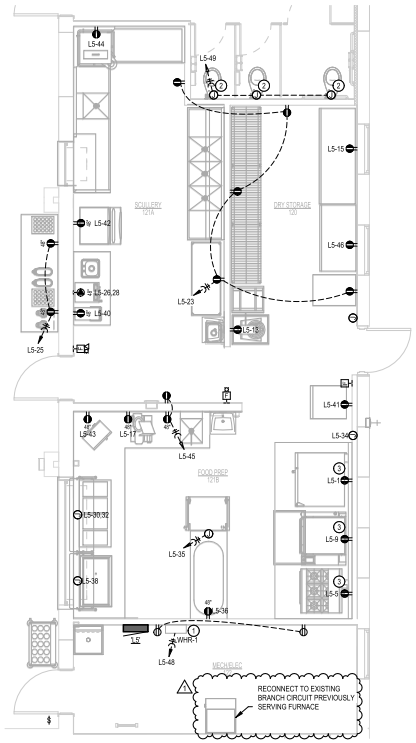
SHEET NUMBER:
ED101

ISSUE DATE: MAY 31, 2024

1/4"=1'-0" 0" 2'-0" 4'-0" 8'-0" 12'-0"

1/8"=1'-0" 0" 4'-0" 8'-0" 16'-0" 24'-0"





1 POWER PLAN MAIN BUILDING

EP101 1/8" = 1'-0"

2 POWER PLAN ENLARGED KITCHEN

EP101 1/4" = 1'-0"

GENERAL PLAN NOTES

1. REFER TO ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES ON SHEET E000.
2. FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
3. ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
4. ALL PIPING CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
5. ALL ELECTRICAL GEAR, FIXUTRES, DEVICES, AND CIRCUITING LABELED EX. OR EXISTING OR SHOWN GRAY / FADED LINES SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
6. REFER TO KITCHEN EQUIPMENT CONSULTANT PLANS FOR FINAL ROUGH-IN HEIGHTS. KEC PLAN HEIGHTS OR GOVERN OVER ELECTRICAL POWER PLAN SHEET HEIGHTS IN FOOD SERVICE / KITCHEN AREA.

ELECTRICAL KEYNOTES

1	WALL HEATER EQUAL TO BERKO FRA1512F. PROVIDE BY MECHANICAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.
2	PROVIDE POWER FOR HARD-WIRED FLUSH VALVE SENSOR. COORDINATE WITH PLUMBING EQUIPMENT.
3	CIRCUIT RECEPTACLES UNDER KITCHEN HOOD TO SHUNT-TRIP CIRCUIT BREAKER INTERLOCKED WITH KITCHEN HOOD FIRE SUPPRESSION SYSTEM TO DISCONNECT POWER TO APPLIANCES ON ACTIVATION OF THE SUPPRESSION SYSTEM.

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SHEET TITLE:
MAIN BUILDING ELECTRICAL POWER PLAN

SHEET NUMBER:
EP101

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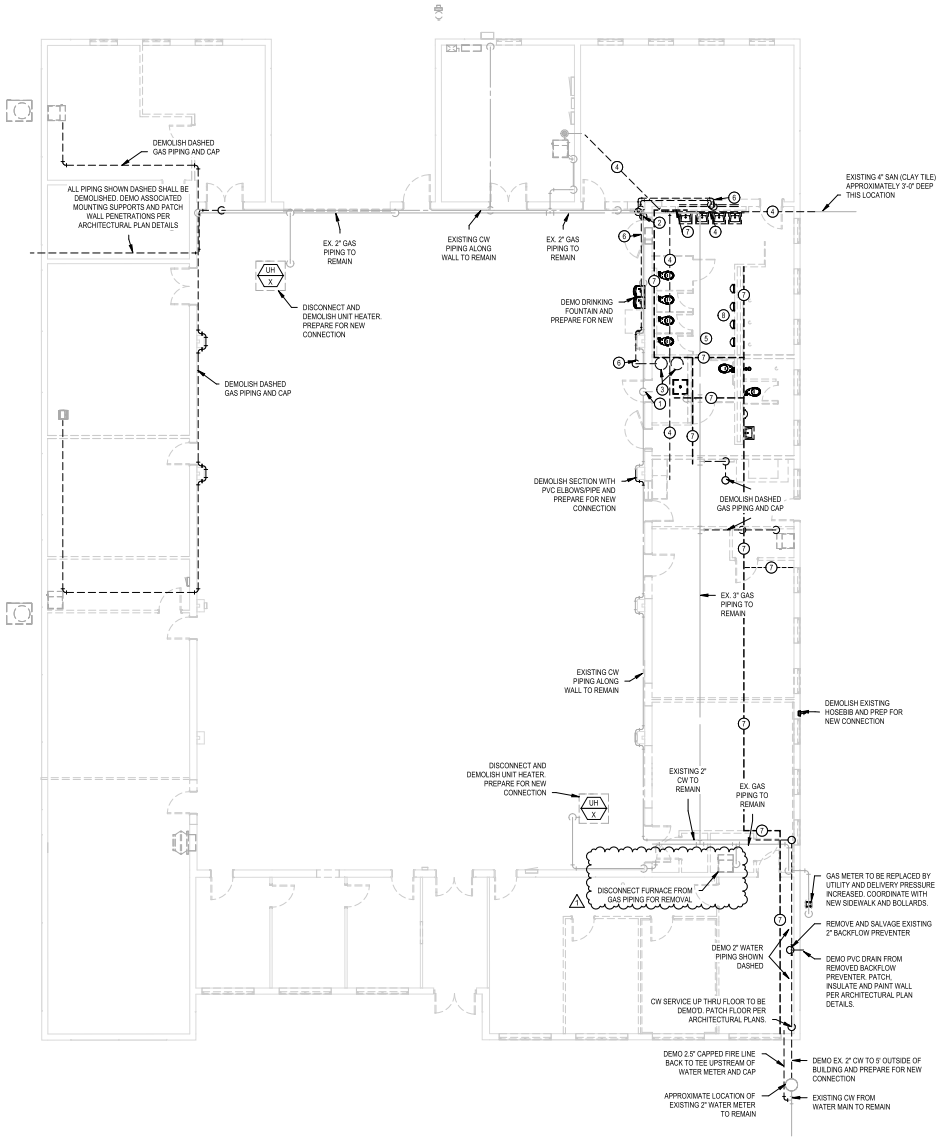

1 PLUMBING PLAN MAIN BUILDING DEMO

PD101 1/8" = 1'-0"

1/8"=1'-0" 0" 4'-0" 8'-0" 16'-0" 24'-0"

GENERAL PLAN NOTES

1. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
2. PITCH UNDERFLOOR SANITARY WASTE PIPING 4" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER SANITARY WASTE PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
3. PITCH UNDERFLOOR STORM PIPING 4" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
4. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
5. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
6. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
7. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
8. ALL EXISTING PIPE ROUTINGS, LOCATIONS AND SIZES SHOWN ARE BASED ON EXISTING BUILDING PLANS AND FIELD INVESTIGATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF PIPING TO TIE INTO.
9. ALL PIPING, EQUIPMENT, APPLIANCES LABELED EX. OR EXISTING SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
10. ALL SANITARY VENT PIPING SHALL AS HIGH AS POSSIBLE, ABOVE BOTTOM OF BAR JOISTS AND ROUTED BETWEEN JOIST AND THRU JOIST WEBBING UNLESS NOTED OTHERWISE.

PLUMBING KEYNOTES

1	EXISTING 2" CW THRU WALL TO REMAIN.
2	DEMOLISH CW WATER PIPING DOWNSTREAM OF THIS LOCATION FEEDING LOCKER ROOM SINKS.
3	REMOVE AND SALVAGE WATER HEATERS. DEMOLISH ALL EXISTING HW PIPING (NOT SHOWN), DEMO FLUE AND CAP AND INSULATE ROOF PENETRATION.
4	APPROXIMATE ROUTING OF EXISTING CAST IRON SANITARY PIPING. DEMOLISH ALL EXISTING SANITARY PIPING INCLUDING BRANCH PIPES TO FIXTURES (NOT SHOWN).
5	DEMOLISH ALL EXISTING SANITARY SEWER VENT PIPING THIS AREA TO VTR AND PREPARE FOR NEW CONNECTION.
6	DEMOLISH HW PIPING FEEDING LOCKER ROOM SINKS
7	PIPE INSULATION – REMOVE PER ACM ENVIRONMENTAL SPECIFICATIONS PIPE INSULATION CONTAINS ASBESTOS.
8	DEMOLISH FLOOR MOUNTED URINALS AND ASSOCIATED PIPING.

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

STATE OF MISSOURI SHANE L. FLOYD NUMBER PE-2010017814 PROFESSIONAL ENGINEER

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DESIGNED BY: KMH

SHEET TITLE:
MAIN BUILDING PLUMBING DEMO PLAN

SHEET NUMBER:
PD101

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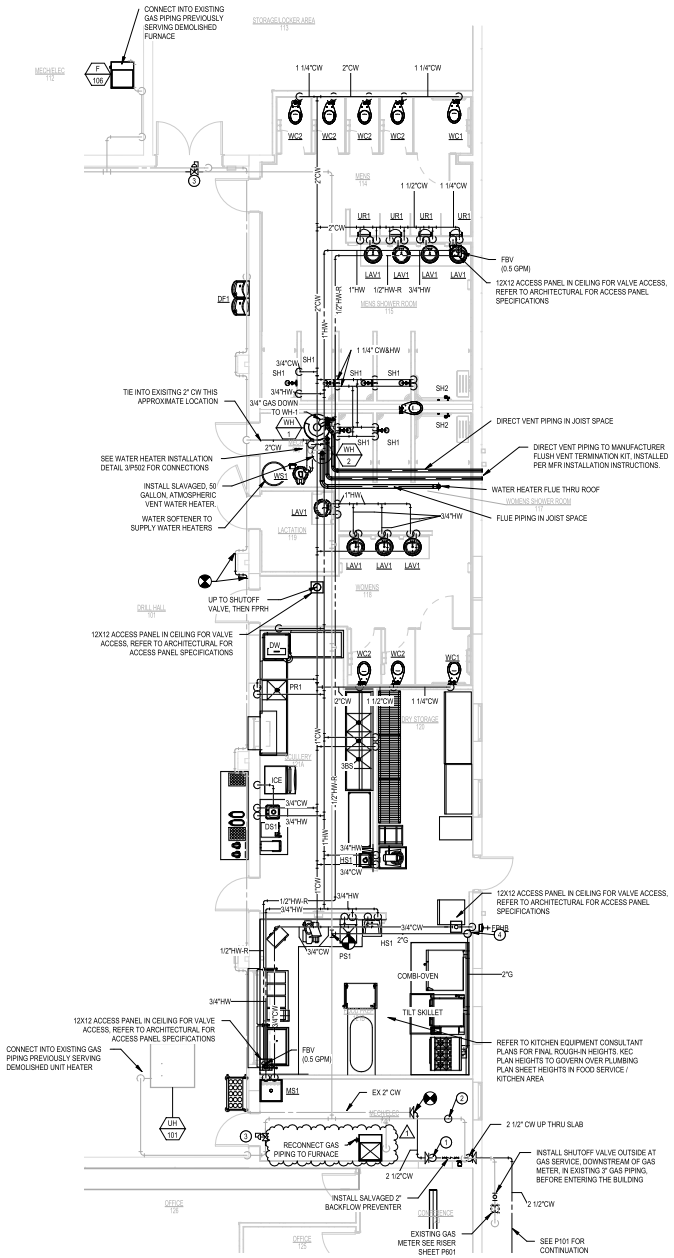
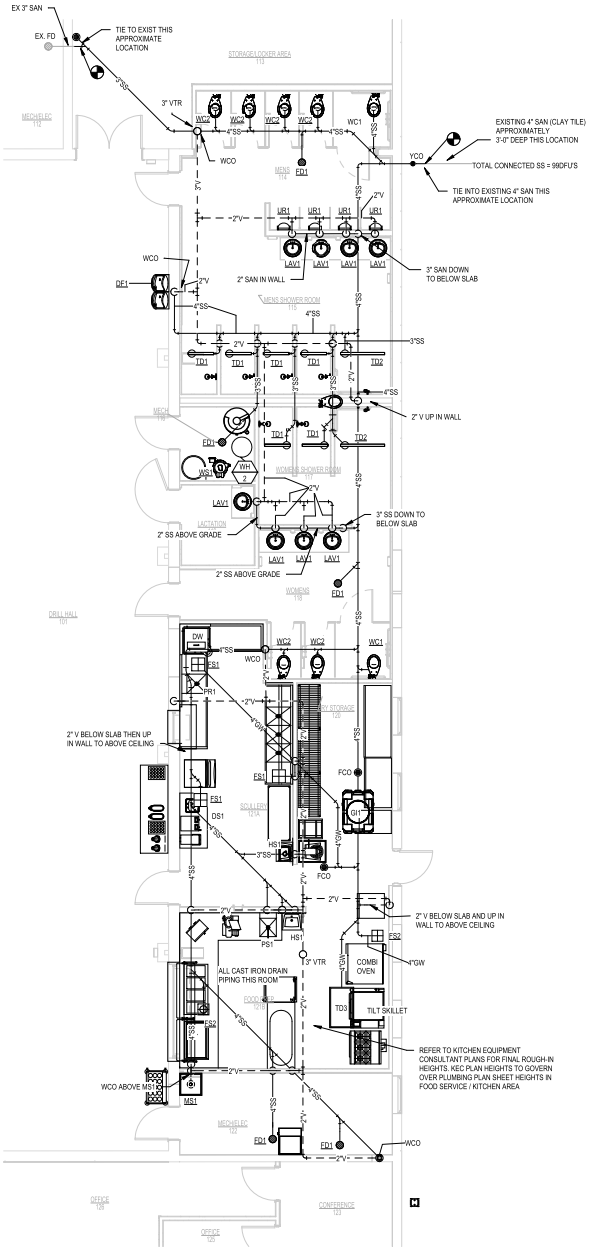


1 PLUMBING PLAN ELARGED - WATER AND GAS
P401 3/16" = 1'-0"



2 PLUMBING PLAN ENLARGED - SANITARY
P401 3/16" = 1'-0"

3/16"=1'-0" 0" 4'-0" 8'-0" 16'-0"

GENERAL PLAN NOTES

1. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
2. PITCH UNDERFLOOR SANITARY WASTE PIPING 4" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER SANITARY WASTE PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
3. PITCH UNDERFLOOR STORM PIPING 4" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
4. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
5. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
6. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
7. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
8. ALL EXISTING PIPE ROUTINGS, LOCATIONS AND SIZES SHOWN ARE BASED ON EXISTING BUILDING PLANS AND FIELD INVESTIGATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF PIPING TO TIE INTO.
9. ALL PIPING, EQUIPMENT, APPLIANCES LABELED EX. OR EXISTING SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
10. ALL SANITARY VENT PIPING SHALL AS HIGH AS POSSIBLE. ABOVE BOTTOM OF BAR JOISTS AND ROUTED BETWEEN JOIST AND THRU JOIST WEBBING UNLESS NOTED OTHERWISE.

PLUMBING KEYNOTES

1	2" CW UP TO ABOVE CEILING.
2	TIE INTO EXISTING 3" GAS PIPING THIS APPROXIMATE LOCATION AND ROUTE NEW 2" GAS UP THRU ROOF.
3	INSTALL NEW 2PSI TO 7" W.C. UL LISTED VENTLESS GAS REGULATOR IN EXISTING GAS PIPING THIS APPROXIMATE LOCATION.
4	2" GAS DOWN TO EMERGENCY GAS SHUTOFF VALVE, PROVIDED BY FIRE SUPPRESSION CONTRACTOR, INSTALLED BY PLUMBING CONTRACTOR AND THEN TO COOK LINE.

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

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SHEET TITLE:
MAIN BUILDING PLUMBING PLANS ENLARGED

SHEET NUMBER:
P401

ISSUE DATE: MAY 31, 2024

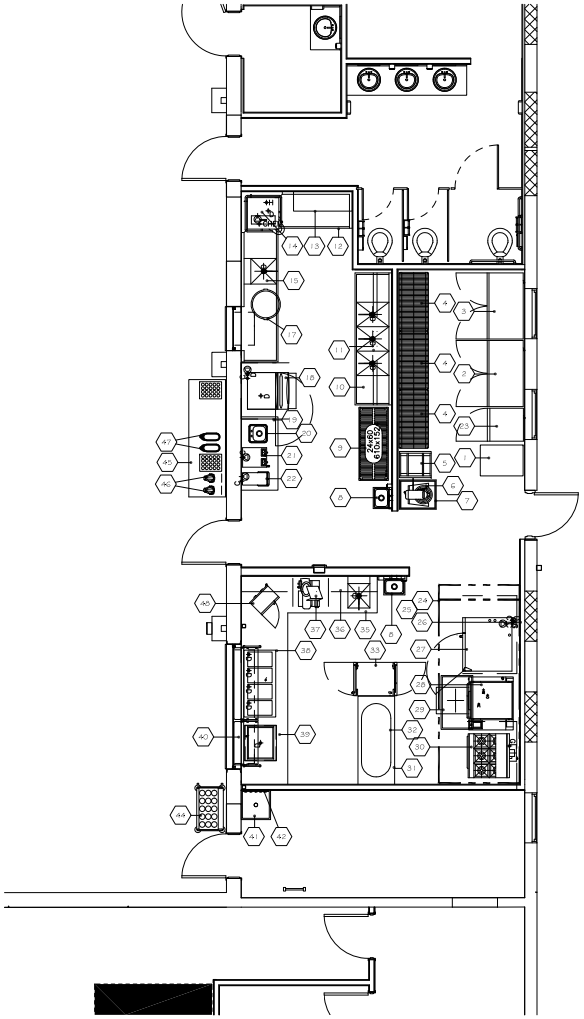
EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	LOG CLASS A BID STATUS	LOG CLASS	REMARKS
1	1	CAN RACK		C	HALF HGT
2	1	REFRIGERATOR		C	TWO SECTION UNIT
3	1	FREEZER		C	TWO SECTION UNIT
4	1 LOT	STORAGE SHELVING		C	
5	1	RACK		C	
6	1	MIXER		C	20 QT.
7	1	MIXER STAND		C	
8	2	HAND SINKS	BASE BID	A	WITH SIDE SPLASHES
9	1	POT AND PAN RACK		C	
10	1	THREE COMPARTMENT SINK	BASE BID	A	EXISTING TO BE RE-USED
11	2	WALL SHELVES	ALTERNATE 1	A	
12	1	CLEAN DISH TABLE	ALTERNATE 1	A	
13	1	WALL SHELF	ALTERNATE 1	A	
14	1	DISH MACHINE	ALTERNATE 1	A	LOW TEMP CORNER MODEL
15	1	SOILED DISH TABLE	ALTERNATE 1	A	
16	0	SPARE NUMBER			
17	1	TRASH CAN		C	
18	1	ICE MACHINE	BASE BID	A	EXISTING TO BE RE-USED
19	1	WORK TABLE	BASE BID	A	
20	1	DROP IN DUMP SINK	BASE BID	A	
21	1	COFFEE MAKER		C	
22	1	TEA BREWER		C	
23	1	REFRIGERATOR	BASE BID	A	EXISTING TO BE RE-USED
24	1	HOOD WITH FIRE PROTECTION SYSTEM	BASE BID	A	REFER TO MECHANICAL DRAWINGS
25	1	DUCT AND FAN	BASE BID	A	REFER TO MECHANICAL DRAWINGS
26	1	STAINLESS STEEL WALL PANELING	BASE BID	A	REFER TO MECHANICAL DRAWINGS
27	1	COMBI OVEN	ALTERNATE 1	A	SINGLE DECK
28	1	TILT SKILLET	ALTERNATE 1	A	30 GALLON
29	1	TRENCH DRAIN	BASE BID	A	
30	1	RANGE	ALTERNATE 1	A	6 BURNER WITH CONVECTION OVEN BASE
31	1	WORK TABLE	BASE BID	C	EXISTING TO BE RE-USED
32	1	HANGING UTENSIL RACK	ALTERNATE 1	A	
33	1	HOT HOLDING CABINET	ALTERNATE 1	A	PASS THRU
34	1	MICROWAVE		C	EXISTING TO BE RE-USED
35	1	COUNTER WITH PREP SINK	BASE BID	A	
36	1	WALL SHELF	ALTERNATE 1	A	
37	1	SLICER		C	
38	1	DROP IN HOT FOOD UNIT	BASE BID	A	FOUR PAN UNIT
39	1	DROP IN COLD PAN	BASE BID	A	THREE PAN UNIT
40	1	PROTECTOR GUARD	BASE BID	A	TWO SECTION UNIT
41	1	MOP SINK	BASE BID	A	REFER TO PLUMBING DRAWINGS
42	1	MOP RACK	BASE BID	A	REFER TO ARCHITECTURAL DRAWINGS
43	0	SPARE NUMBER			
44	1	TRAY AND SILVER CART		C	
45	1	BEVERAGE TABLE		C	
46	1 LOT	AIR POTS		C	
47	1 LOT	TEA DISPENSERS		C	

LOG CLASSIFICATION:

A: EQUIPMENT AUTHORIZED TO BE INSTALLED (I.E. ATTACHED TO THE FLOOR AND OR PERMANENTLY CONNECTED TO THE BUILDING STRUCTURE OR UTILITY SYSTEM) AS PART OF THE CONSTRUCTION CONTRACT

C: PORTABLE EQUIPMENT WHICH WILL BE PROVIDED THROUGH SUPPLY CHANNELS AND OWNER INSTALLED (AND WHICH SHOULD NOT BE IN THE CONSTRUCTION CONTRACT) AND FOR WHICH NO UTILITY HOOK-UPS ARE REQUIRED (BUT WHICH SHOULD BE CONSIDERED IN THE SPACE LAYOUT AND OPERATIONAL PLAN)



01 MRC - FOODSERVICE EQUIPMENT FLOOR PLAN
Q-FP-01 1/4" = 1'-0"

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

PRELIMINARY, NOT FOR CONSTRUCTION

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DENNIS G. GLORE, INC.
Food Facilities Consultants
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Phone: (636) 938-7857 Fax: (636) 938-6580

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